

# **VistA Package Size Reporting Tool (VPSRT)**

**Kernel Toolkit Patch XT\*7.3\*143**

**User Guide (REDACTED)**



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## Revision History

Date	Revision	Description	Author
04/19/2021	1.0	Initial <i>VistA Package Size Reporting Tool (VPSRT) Kernel Toolkit Patch XT*7.3*143 User Guide.</i>	VistA Infrastructure (VI) / VistA Kernel Development Team: Patch XU*8.0*143

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## Orientation

### How to Use this Manual

Throughout this manual, advice and instructions are offered regarding the use of the VistA Package Size Reporting Tool (VPSRT) and the functionality it provides for Veterans Health Information Systems and Technology Architecture (VistA).

### Intended Audience

The intended audience of this manual is the following stakeholders:

- Enterprise Program Management Office (EPMO)—VistA legacy development teams.
- System Administrators—System administrators at Department of Veterans Affairs (VA) regional and local sites who are responsible for computer management and system security on the VistA M Servers.
- Information Security Officers (ISOs)—Personnel at VA sites responsible for system security.
- Product Support (PS).

## Disclaimers

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## Documentation Disclaimer

This manual provides an overall explanation of VPSRT and the functionality contained in VPSRT; however, no attempt is made to explain how the overall VistA programming system is integrated and maintained. Such methods and procedures are documented elsewhere. We suggest you look at the various VA Internet and Intranet websites for a general orientation to VistA. For example, visit the Office of Information and Technology (OIT) VistA Development Intranet website.



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## Documentation Conventions

This manual uses several methods to highlight different aspects of the material:

- Various symbols are used throughout the documentation to alert the reader to special information. [Table 1](#) gives a description of each of these symbols:

**Table 1: Documentation Symbol Descriptions**

Symbol	Description
	<b>NOTE / REF:</b> Used to inform the reader of general information including references to additional reading material.
	<b>CAUTION / RECOMMENDATION / DISCLAIMER:</b> Used to caution the reader to take special notice of critical information.

- Descriptive text is presented in a proportional font (as represented by this font).
- Conventions for displaying TEST data in this document are as follows:
  - The first three digits (prefix) of any Social Security Numbers (SSN) begin with either “000” or “666.”
  - Patient and user names are formatted as follows:
    - *[Application Name]PATIENT,[N]*
    - *[Application Name]USER,[N]*

Where “[Application Name]” is defined in the Approved Application Abbreviations document and “[N]” represents the first name as a number spelled out and incremented with each new entry.

For example, in Kernel (XU) test patient names would be documented as follows:

XUPATIENT,ONE; XUPATIENT,TWO; XUPATIENT,14, etc.

For example, in Kernel (XU) test user names would be documented as follows:

XUUSER,ONE; XUUSER,TWO; XUUSER,14, etc.

- “Snapshots” of computer online displays (i.e., screen captures/dialogues) and computer source code are shown in a *non*-proportional font and may be enclosed within a box.
- User’s responses to online prompts are in **boldface** and highlighted in yellow (e.g., <Enter>).
- Emphasis within a dialogue box is in **boldface** and highlighted in blue (e.g., STANDARD LISTENER: RUNNING).
- Some software code reserved/key words are in **boldface** with alternate color font.
- References to “<Enter>” within these snapshots indicate that the user should press the <Enter> key on the keyboard. Other special keys are represented within <> angle brackets. For example, pressing the **PF1** key can be represented as pressing <PF1>.
- Author’s comments are displayed in italics or as “callout” boxes.



**NOTE:** Callout boxes refer to labels or descriptions usually enclosed within a box, which point to specific areas of a displayed image.

## Documentation Navigation

This document uses Microsoft® Word’s built-in navigation for internal hyperlinks. To add **Back** and **Forward** navigation buttons to your toolbar, do the following:

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2. Select **Customize Quick Access Toolbar** from the secondary menu.
3. Press the drop-down arrow in the “**Choose commands from:**” box.
4. Select **All Commands** from the displayed list.
5. Scroll through the command list in the left column until you see the **Back** command (circle with arrow pointing left).
6. Select/Highlight the **Back** command and press **Add** to add it to your customized toolbar.
7. Scroll through the command list in the left column until you see the **Forward** command (circle with arrow pointing right).
8. Select/Highlight the **Forward** command and press **Add** to add it to your customized toolbar.

## 9. Press **OK**.

You can now use these **Back** and **Forward** command buttons in your Toolbar to navigate back and forth in your Word document when selecting hyperlinks within the document.

**i** **NOTE:** This is a one-time setup and is automatically available in any other Word document once you install it on the Toolbar.

## How to Obtain Technical Information Online

Exported VistA M Server-based software file, routine, and global documentation can be generated using Kernel, MailMan, and VA FileMan utilities.

**i** **NOTE:** Methods of obtaining specific technical information online will be indicated where applicable under the appropriate section.

## Help at Prompts

VistA M Server-based software provides online help and commonly used system default prompts. Users are encouraged to enter question marks at any response prompt. At the end of the help display, you are immediately returned to the point from which you started. This is an easy way to learn about any aspect of VistA M Server-based software.

## Obtaining Data Dictionary Listings

Technical information about VistA M Server-based files and the fields in files is stored in data dictionaries (DD). You can use the **List File Attributes** [DILIST] option on the **Data Dictionary Utilities** [DI DDU] menu in VA FileMan to print formatted data dictionaries.

**i** **REF:** For details about obtaining data dictionaries and about the formats available, see the “List File Attributes” chapter in the “File Management” section of the *VA FileMan Advanced User Manual*.

## Assumptions

This manual is written with the assumption that the reader is familiar with the following:

- VistA computing environment:
  - Kernel—VistA M Server software
  - VA FileMan data structures and terminology—VistA M Server software
- Microsoft Windows environment

## References

Readers who wish to learn more about VistA Package Size Reporting Tool (VPSRT) should consult the following:

- *VistA Package Size Reporting Tool (VPSRT) Deployment, Installation, Back-Out, and Rollback Guide (DIBRG)*
- *VistA Package Size Reporting Tool (VPSRT) User Guide* (this manual)
- *VistA Package Size Reporting Tool (VPSRT) Technical Manual*

VistA documentation is made available online in Microsoft® Word format and in Adobe Acrobat Portable Document Format (PDF). The PDF documents *must* be read using the Adobe Acrobat Reader, which is freely distributed by Adobe Systems Incorporated at: <http://www.adobe.com/>

VistA documentation can be downloaded from the VA Software Document Library (VDL) website: <http://www.va.gov/vdl/>

The VPSRT documentation is located on the VDL at: [VA Software Document Library - Kernel Toolkit](#)

VistA documentation and software can also be downloaded from the Product Support (PS) Anonymous Directories.

# 1 Introduction

The Veterans Health Information Systems and Technology Architecture (VistA) Package Size Reporting Tool (VPSRT) is used to report the number of technical components used to build any legacy VistA package. The package uses the package definition from the VistA PACKAGE (#9.4) file to identify package components. The VistA Package Size Reporting Tool includes a suite of analytical tools to assist a user with validating the package definitions in the VistA Package file. This document outlines the steps needed to deploy and use the VPS Reporting Tool.



**NOTE:** This tool is being developed and released under the Kernel Toolkit “XTVS” namespace as a Class I application. It will be installed on FORUM and made available to all project teams. Eventually, this tool may become a Web service.

Kernel Patch XT\*7.3\*143 provides the following functionality:

- Extract VistA PACKAGE (#9.4) file data from one system and move it to another system where it may be written to a local text (parameter) file.
- Edit, share, and delete parameter (text) files.
- Report data inconsistencies in a selected parameter (text) file or differences between it and another parameter (text) file. Share the reports.
- Create a VistA Package size report based on the parameter (text) file that can be written into a delimited file (for input to another computer application) or written into a captioned file (that can be read by a human).
- Control access to extract and Package Parameter files within the application.
- Prevent multiple users accessing the same Package Parameter file at the same time.

## 1.1 System Overview

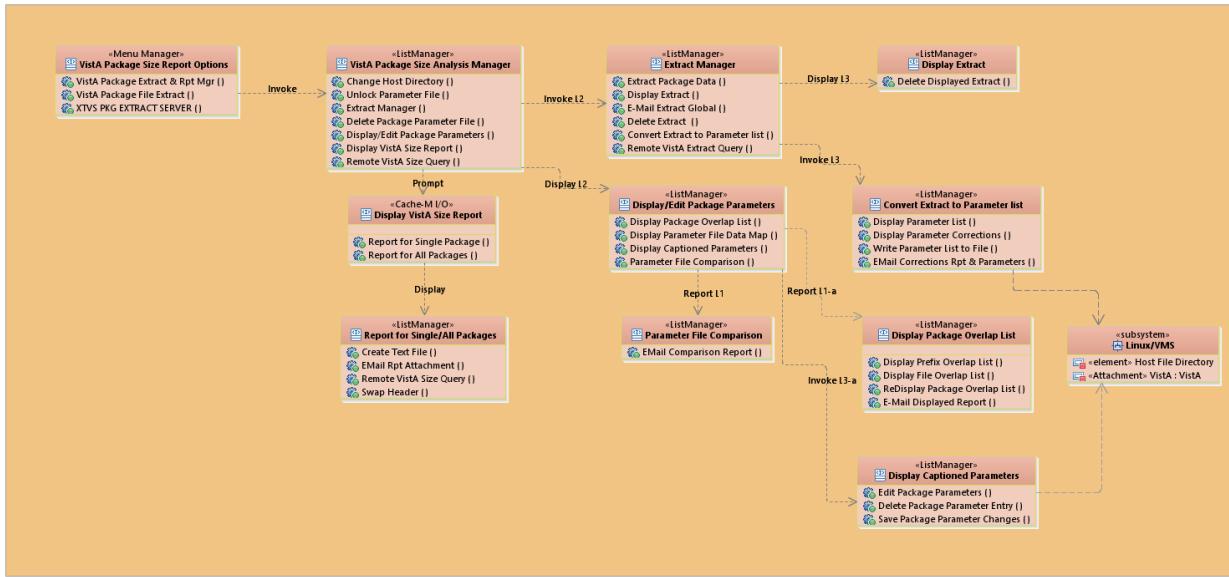
Patch XT\*7.3\*143 enhances Kernel Toolkit by adding a legacy VistA package definition and size reporting system. This enhancement does *not* measure package use or capacity requirements. It provides statistics on the “technical footprint” for a VistA Package, where “technical footprint” is the following:

- Number of routines
- Size of routines
- Number of files
- Number of fields
- Number of options
- Number of protocols

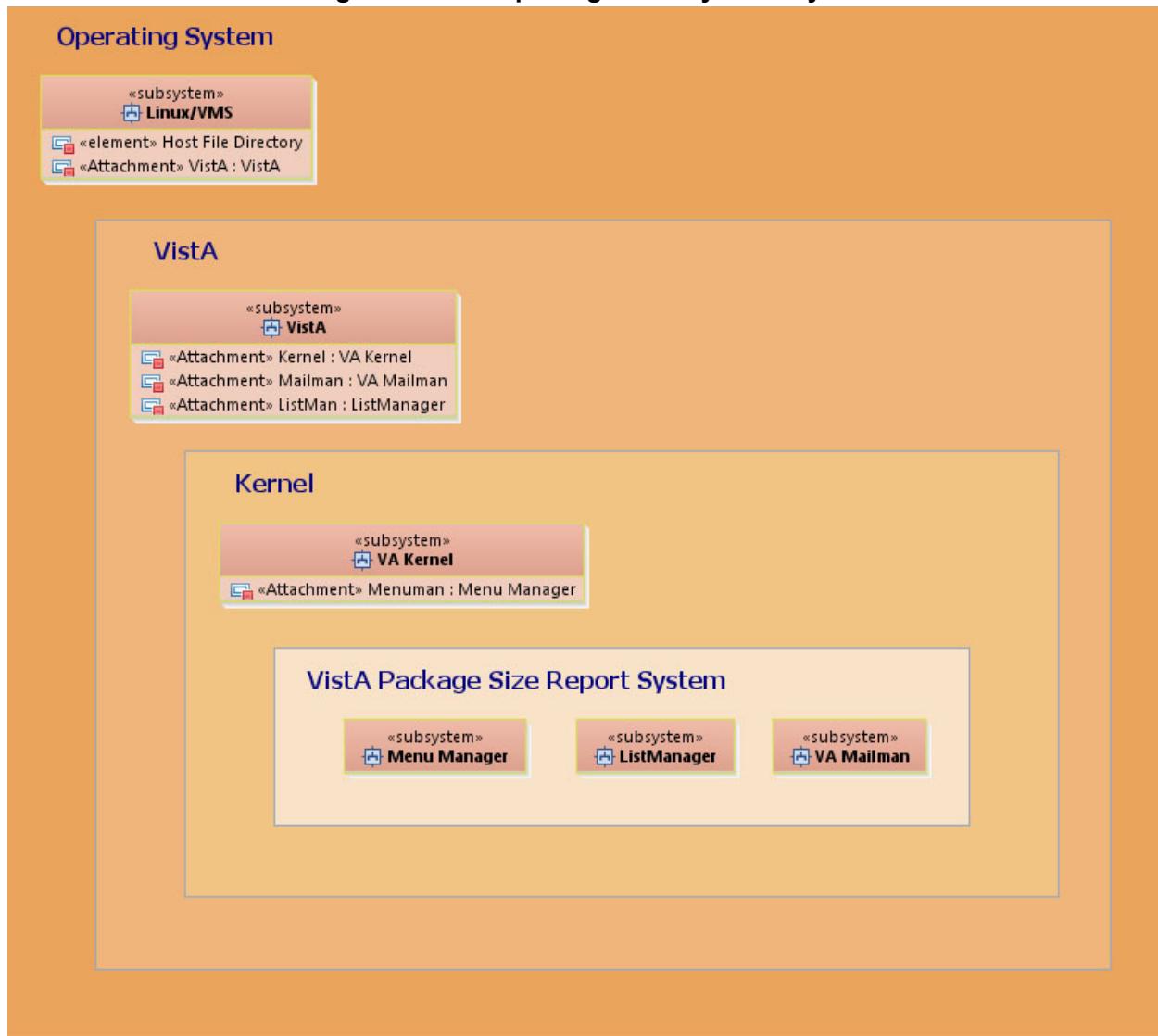
- Number of remote procedure calls (RPCs)
- Number of VA FileMan templates included in the reported package

This package is new and does *not* exist in production VistA prior to installation of Patch XT\*7.3\*143. The report depends on accurate package definitions to provide correct statistics for a package.

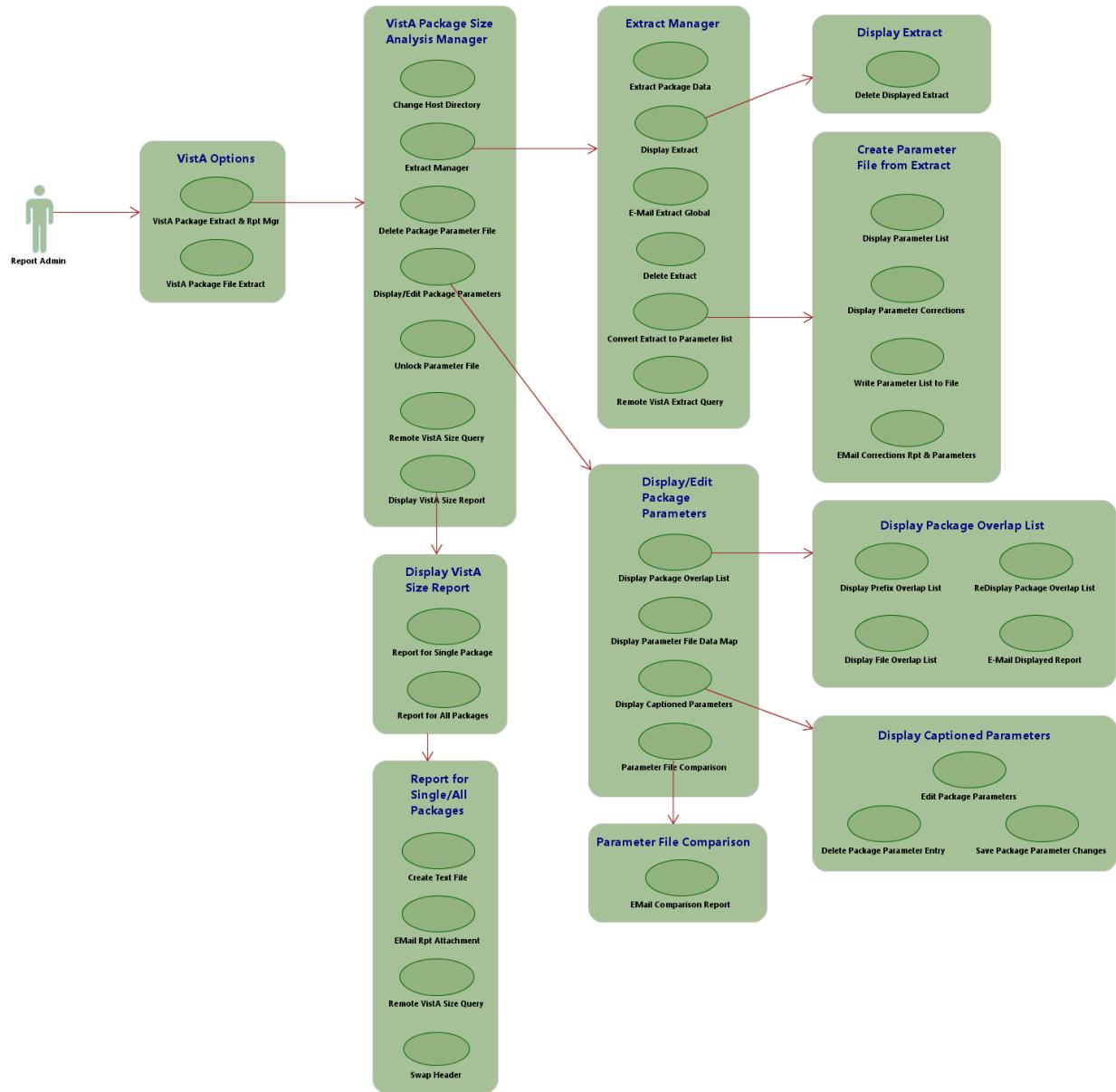
**Figure 1: VPS Reporting Tool—Integration**



**Figure 2: VPS Reporting Tool—System Layers**



**Figure 3: VPS Reporting Tool—Extract Manager Use Cases**



## 1.2 Generating VistA Package Size Statistics

There are three basic processes in generating VistA Package Size statistics:

- [Extract FORUM Package Data from PACKAGE \(9.4\) File](#)
- [Update VistA Package Size Package Parameters Data File](#)
- [Report VistA Package Size Statistics](#)

### **1.2.1 Extract FORUM Package Data from PACKAGE (9.4) File**

Extract FORUM package data from the PACKAGE (9.4) file for all packages that meet the following criteria.

- Have a status of any of the following:
  - ASSIGNED
  - PENDING
  - TEMPORARY
- Are any of the following classes:
  - CLASS 1/EPMO
  - CLASS 1/C3->C1
  - CLASS 1/NON-VA
  - CLASS 1/INNOVATIONS

The Class entries are:

- I CLASS 1/EPMO
- II CLASS 2/FIELD
- III CLASS 3/FIELD
- Ia CLASS 1/C3->C1
- Ib CLASS 1/NON-VA
- Ic CLASS 1/INNOVATIONS

The data in the following fields are extracted from the FORUM PACKAGE (9.4) file:

- NAME [.01]
- PREFIX [1]
- \*LOWEST FILE NUMBER [10.6]
- \*HIGHEST FILE NUMBER [11]
- ADDITIONAL PREFIXES multiple [#14]
  - ADDITIONAL PREFIXES [.01]
- EXCLUDED NAME SPACE multiple [919]
  - EXCLUDED NAME SPACE [.01]

- FILE NUMBER multiple [15001]
  - FILE NUMBER [.01]
- LOW-HIGH RANGE multiple [15001.1]
  - LOW FILE NUMBER [.01]
  - HIGH FILE NUMBER [.02]
- PARENT PACKAGE [15003]

### **1.2.2 Update VistA Package Size Package Parameters Data File**

The VistA Package Size Report Tools include a suite of tools for managing the package parameters used to generate the package size report. These tools include:

- Package Parameter file comparisons
- Package component add, change, and delete
- Package add and delete
- Package Parameter file creation and deletion
- VistA MailMan functions

### **1.2.3 Report VistA Package Size Statistics**

Report VistA package size statistics using the VistA Package Size Parameters data file and the configuration of the VistA instance where the report is created. The report should be created on a fully patched "gold" instance of VistA. The statistics can be reported in various forms. The statistic report formats include:

- Single VistA Package (human readable)
- All packages sorted by Package Name (human readable)
- All packages sorted on Number of Routines (human readable)
- All packages sorted on Total Routine Size (human readable)
- All packages sorted on Package Name with caret delimited data (computer readable)
- All packages sorted on Package name with caret delimited data, parent package is included (computer readable)

These reports can be emailed or written to a text file.

## **1.3 VistA Package Size Reporting Tool (VPSRT) Options**

The VistA Package Size Reporting Tool (VPSRT) has **three** options:

- **VistA Package Extract Manager** [XTVS VISTA PACKAGE EXTRACT MGR]  
This option invokes the “**VistA Package Size Analysis Manager**” screen (aka **VistA Package Extract & Rpt Manager**).
- **Send Package File Extract via Packman** [XTVS PKG MGR EXT PACKAGE MSG]

This option does the following:

- Extracts the VistA Package Size relevant data from the PACKAGE (#9.4) file.
- Loads it into an **^XTMP** global.
- Bundles the **^XTMP** global in a PackMan message.
- Allows the user to send it to a VA MailMan email address on a VistA environment.

- **Process XTVS Request Message** [XTVS PKG EXTRACT SERVER]

This server option processes a Kernel Toolkit VistA Package Size request message. The VistA Package Size Reporting Tool (VPSRT) can request the following information from a remote VistA via a request message to this option:

- Size report for a single VistA package on another production VistA.
- Package file extract from any production VistA. Optionally, a size a report for all packages can be requested from FORUM in addition to a Package file extract.

## **1.4 VistA Package Size Reporting Tool (VPSRT) Protocols**

### **1.4.1 ListMan Menu Type Protocols**

The following are the VistA Package Size Reporting Tool (VPSRT) Analysis Manager ListMan menus:

- **VistA Package Mgr Menu** [XTVS PACKAGE MANAGER MENU]: This menu allows access to VistA Package Manager actions. The **XTVS PACKAGE MANAGER** List Manager template uses this menu protocol. This menu includes the following actions:
  - **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION]
  - **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION]
  - **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT]
  - **DPF—Delete Package Parameter File** [XTVS PKG MGR PARAM FILE DELETE ACTION]
  - **CHD—Change Host Directory** [XTVS SITE PARAMETERS]

- **UNL—Unlock Parameter File** [XTVS PKG MGR PARAM UNLOCK ACTION]
- **Extract Display/Delete** [XTVS PKG MGR EXT DISP MENU]: This menu displays a selected extract and related actions for the extract. The **XTVS PKG MGR EXT DISP** List Manager template uses this menu protocol. This menu includes the following actions:
  - **DE—Delete Displayed Extract** [XTVS PKG EXT DISP DEL ACTION]
  - **VALM BLANK 1**
- **Extract Manager Menu** [XTVS PKG MGR EXTRACT MENU]: This menu allows access to the Package File Extract tools. The **XTVS PKG MGR EXTRACT MNGR** List Manager template uses this menu protocol. This menu includes the following actions:
  - **CE—Extract Package Data** [XTVS PKG EXTRACT CREATE ACTION]
  - **ED—Display Extract** [XTVS PKG MGR EXT DISP ACTION]
  - **ME—Email Extract Global** [XTVS PKG EXT EMAIL ACTION]
  - **DEL—Delete Extract** [XTVS PKG EXTRACT DEL ACTION]
  - **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION]
  - **VALM BLANK 1**
- **New Parameter File Menu** [XTVS PKG MGR NEW PARAM MENU]: This menu allows access to the new Package Parameter file management actions. The **XTVS PKG EXT CRT PARAM** List Manager template uses this menu protocol. This menu includes the following actions:
  - **RPL—Display Parameter List** [XTVS PKG EXT REDISP PARAM ACTION]
  - **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION]
  - **WPF—Write Parameter List to File** [XTVS PKG EXT PARAM WRT ACTION]
  - **EPC—Email Corrections Rpt & Parameters** [XTVS PKG MGR NEW PARAM MAIL ACTION]

- **Compare Parameters to Existing File** [XTVS PKG MGR PARAM CMPR MENU]: The menu allows selection of an existing **XTMPSIZE.DAT** file for comparison to a displayed file. Differences are reported in a ListMan user interface. The **XTVS PKG MGR PARAM COMPARE** List Manager template uses this menu protocol. This menu includes the following actions:
  - **ECR—Email Comparison Report** [XTVS PKG MGR PARAM COMPR MAIL ACTION]
  - **VALM BLANK 2**
- **Parameter Caption Display Menu** [XTVS PKG MGR PARAM DISP CAPTN MENU]: This menu contains the list of actions available from the **XTVS PKG MGR PARAM CAPTN DISP** list template. This menu includes the following actions:
  - **EPP—Edit Package Parameters** [XTVS PKG MGR EDIT PACKAGE PARM ACTION]
  - **DPE—Delete Package Parameter Entry** [XTVS PKG MGR DEL PACKAGE PARM ACTION]
  - **SPP—Save Package Parameter Changes** [XTVS PKG MGR SAVE PACKAGE PARM ACTION]
  - **VALM BLANK 1**
- **Package Parameter Display Menu** [XTVS PKG MGR PARAM DISP MENU]: This menu contains the list of actions available from the **XTVS PKG MGR PARAM DISPLAY** list template. This menu includes the following actions:
  - **DO—Display Package Overlap List** [XTVS PKG MGR PARAM ERR DISP ACTION]
  - **DM—Display Parameter File Data Map** [XTVS PKG MGR PARAM DATA MAP HELP ACTION]
  - **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION]
  - **CPF—Parameter File Comparison** [XTVS PKG MGR PARAM COMPARE ACTION]

- **List Package Errors** [XTVS PKG MGR PARAM ERROR MENU]: This menu allows access to the Package Parameter file error reporting actions. The **XTVS PKG MGR PARAM ERROR DISP** List Manager template uses this menu protocol. This menu includes the following actions:
  - **PL—Display Prefix Overlap List** [XTVS PKG MGR PREFIX OVERLAP ACTION]
  - **FL—Display File Overlap List** [XTVS PKG MGR FILE OVERLAP ACTION]
  - **EL—Email Displayed Report** [XTVS PKG MGR EMAIL OVRLAP RPT ACTION]
  - **RL—[Re] Display Package Overlap List** [XTVS PKG MGR PARAM OVRLP REDISP ACTION]
- **VistA Size Report Menu** [XTVS PKG MGR RPT MENU]: This menu allows access to VistA Package Manager statistics report actions. The **XTVS PKG MGR VISTA SIZE RPT** List Manager template uses this menu protocol. This menu includes the following actions:
  - **CTF—Create Text File** [XTVS PKG MGR RPT WRT ACTION]
  - **ER—Email Rpt Attachment** [XTVS PKG MGR RPT MAIL ACTION]

## 1.4.2 ListMan Action Type Protocols

The following are the VistA Package Size Reporting Tool (VPSRT) Analysis Manager ListMan actions:

- **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION]: Prompts the user for the \$JOB Process ID of the extract and displays the Extract Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) on the “**VistA Package Size Analysis Manager – Package Parameters**” screen (see Section [2.2.5](#)).
- **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION]: Allows users to review the changes the [CXP—Convert Extract to Parameter List](#) [XTVS PKG EXT CRT PARAM ACTION] action made to the data written in the Package Parameters list when it was created from the raw PACKAGE (#9.4) file extract (see Section [2.2.5.2](#)).

Creation of Package Parameters from the PACKAGE (#9.4) file extract extends file range numbers out to **four (4)** decimal places (nines). For example, **1.5** becomes **1.5999**. It also reports omissions and data integrity problems in the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)).

- **DE—Delete Displayed Extract** [XTVS PKG EXT DISP DEL ACTION]: Allows the user to delete the **^XTMP(“XTVS”)** global extract displayed on the “**VistA Package Size Analysis Manager - Display Extract**” screen (see Section [2.2.4.2.1](#)). This action prompts the user to confirm deletion of the **^XTMP** global displayed in the list:
  - **NO**—Displays a message and redisplays the extract global.
  - **YES**—Deletes the global and returns to the “**VistA Package Size Analysis Manager - Extract Manager**” screen.

To display an extract for deletion, use the **ED—Display Extract** [XTVS PKG MGR EXT DISP ACTION] action (see Section [2.2.4.2](#)).

- **ME—Email Extract Global** [XTVS PKG EXT EMAIL ACTION]: Prompts the user for the **\$JOB** Process ID number of the extract to mail and then prompts the user for recipients (see Section [2.2.4.3](#)).

This serves as an alternate to the **Send Package File Extract via Packman** [XTVS PKG MGR EXT PACKAGE MSG] option (see Section [2.2.1](#)).

- **WPF—Write Parameter List to File** [XTVS PKG EXT PARAM WRT ACTION]: Creates a Package Parameter file (i.e., **XTMPSIZE\*.DAT**) from the Package Parameters displayed with the following file name format (see Section [2.2.6](#)):

**XTMPSIZE\_<user initials><mm-dd-yy hhmm>.DAT**

It is written to the VistA Package Size default directory for further editing with the VistA Package Analysis Manager for further editing with the VistA Package Analysis Manager.



**REF:** For more information on setting the VistA Package Size default directory, see Section [2.2.15](#), “[Change Host File Directory](#).”

- **RPL—Display Parameter List** [XTVS PKG EXT REDISP PARAM ACTION]: Executed after users review corrections with the **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION] action. It redisplays the package parameters as defined by the selected package extract file (see Section [2.2.5.1](#)).
- **CE—Extract Package Data** [XTVS PKG EXTRACT CREATE ACTION]: Extracts PACKAGE (#9.4) file data into **^XTMP(“XTVS”)** global (see Section [2.2.4.1](#)).
- **DEL—Delete Extract** [XTVS PKG EXTRACT DEL ACTION]: Prompts the user for the **\$JOB** Process ID number of the extract and deletes the **^XTMP(“XTSIZE”)** global extract (see Section [2.2.4.4](#)).
- **DPE—Delete Package Parameter Entry** [XTVS PKG MGR DEL PACKAGE PARM ACTION]: Prompts users to enter a package to delete. The user is reminded that deletion removes the package from the size report created with the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) being edited (see Section [2.2.11.2](#)).

- **EPP—Edit Package Parameters** [XTVS PKG MGR EDIT PACKAGE PARM ACTION]: Prompts users to enter a package to add/edit. The user is then prompted to edit the parameters required for Package Size Reporting (see Section [2.2.11.1](#)).
- **EL—Email Displayed Report** [XTVS PKG MGR EMAIL OVRLAP RPT ACTION]: Prompts the user for email recipients to send the displayed report. This action allows the report to be sent to a specific Package SME for review (see Step 2 in Section [2.2.9](#)).



**NOTE:** This action sends the displayed report. For example, if the “**VistA Package Size Analysis Manager – File Overlap**” screen is displayed, then the “File Overlap” report is sent to the recipient.

- **ED—Display Extract** [XTVS PKG MGR EXT DISP ACTION]: Allows users to enter the \$J Process number for the ^XTMP(“XTVS”) global and display its data (see Section [2.2.4.2](#)). The “**VistA Package Size Analysis Manager – Display Extract**” screen is displayed and presents a report of each Package with captioned parameter data. Use this report to review the extracted PACKAGE (#9.4) file data to determine what parameter changes and corrections need to be made.

To delete a displayed extract, use the **DE—Delete Displayed Extract** [XTVS PKG EXT DISP DEL ACTION] action.

- **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION]: Invokes a utility for managing the ^XTMP(“XTSIZE”) global (see Section [2.2.4](#)).

This action is locked with the **XTVS EDITOR** security key.

- **FL—Display File Overlap List** [XTVS PKG MGR FILE OVERLAP ACTION]: Sorts out and displays only the packages that have file overlaps (intersections) (see Section [2.2.9.2](#)). The “**VistA Package Size Analysis Manager – File Overlap**” screen is then displayed.
- **EPC—Email Corrections Rpt & Parameters** [XTVS PKG MGR NEW PARAM MAIL ACTION]: Prompts the user for recipients and sends the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) as an attachment and the corrections report in the mail message (see Section [2.2.5.3](#)). Use this information as a starting point for correcting package information in the Parameters file.
- **CPF—Parameter File Comparison** [XTVS PKG MGR PARAM COMPARE ACTION]: Prompts the user to select a Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) for comparison (see Step 4 in Section [2.2.9](#)). Displays a report of differences between the new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) and the selected Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)).
- **ECR—Email Comparison Report** [XTVS PKG MGR PARAM COMPR MAIL ACTION]: Allows users to email a comparison report on the “**VistA Package Size Analysis Manager - Parameter Compare**” screen using VistA MailMan (see Section [2.2.9.4](#)).

- **DM—Display Parameter File Data Map** [XTVS PKG MGR PARAM DATA MAP HELP ACTION]: Displays a data map of the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) list data (see Section [2.2.8.1](#)).
- **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION]: Displays the list of packages with captioned data elements. It also supports Package Parameter editing actions (see Section [2.2.10](#)).
- **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION]: This action prompts the user to select a [XTMPSIZE\\*.DAT](#) Package Parameter file from a list of Package Parameter files (i.e., [XTMPSIZE\\*.DAT](#)). It then invokes the “**VistA Package Size Analysis Manager – Parameter Display**” screen for editing and managing Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) data (see Section [2.2.8](#)).

This action is locked with the **XTVS EDITOR** security key.

- **DO—Display Package Overlap List** [XTVS PKG MGR PARAM ERR DISP ACTION]: Displays the “**VistA Package Size Analysis Manager – Prefix/File Overlap**” screen. It includes data analysis support actions that allow users to review PACKAGE (#9.4) file and PREFIX (#1) field (i.e., unique namespace prefix assigned to the package) overlap information (see Section [2.2.9](#)).
- **DPF—Delete Package Parameter File** [XTVS PKG MGR PARAM FILE DELETE ACTION]: Deletes from the system a selected Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) listed on the “**VistA Package Size Analysis Manager**” screen (see Section [2.2.3.1](#)).

This action is locked with the **XTVS EDITOR** security key.

- **RL—[Re] Display Package Overlap List** [XTVS PKG MGR PARAM OVRLP REDISP ACTION]: Displays both prefix (namespace) and file overlaps for packages that intersect (see Section [2.2.9.3](#)). The “**VistA Package Size Analysis Manager – Prefix/File Overlap**” screen is re-displayed.
- **PL—Display Prefix Overlap List** [XTVS PKG MGR PREFIX OVERLAP ACTION]: Sorts out and displays only the packages that have prefix (namespace) overlap (intersections) (see Section [2.2.9.1](#)). The “**VistA Package Size Analysis Manager – Prefix Overlap**” screen is displayed.
- **ER—Email Rpt Attachment** [XTVS PKG MGR RPT MAIL ACTION]: Prompts the user for email addresses to receive the report (see Section [2.2.13](#)).

- **CTF—Create Text File** [XTVS PKG MGR RPT WRT ACTION]: Prompts users to enter the following (see Section [2.2.13](#)):
  - Directory to write the report file. The default is the VistA Package Size default directory.



**REF:** For more information on setting the VistA Package Size default directory, see Section [2.2.15](#), “[Change Host File Directory](#).”

- Name of the host file that will contain the report. The default name is:

**VistAPkgSize\_<VA FileMan internal date/time>.txt**

- **SPP—Save Package Parameter Changes** [XTVS PKG MGR SAVE PACKAGE PARM ACTION]: Allows users to overwrite the displayed Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) or create a new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) (see Section [2.2.12](#)).

After the **XTMPSIZE\*.DAT** file has been edited, this action prompts the user to indicate if they want to create a new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)). If the user selects to create a new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)), the file is written to the **XTMPSIZE\*.DAT** default directory with the following file name format:

**XTMPSIZE\_<user initials><mm-dd-yy hhmm>.DAT**



**REF:** For more information on setting the VistA Package Size default directory, see Section [2.2.15](#), “[Change Host File Directory](#).”

If the user does *not* choose to create a new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)), the currently displayed Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) is overwritten.

- **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT]: Reports VistA package size statistics (see Sections [2.2.13](#) and [2.2.13.2](#)).
- **CHD—Change Host Directory** [XTVS SITE PARAMETERS]: Allows users to change the default host file directory (see Section [2.2.15](#)) retaining the following files:
  - [XTMPSIZE\\*.DAT](#)
  - [XTMPSIZE\\*.BAK](#)
  - VistA Size Statistic Report

This action is locked with the **XTVS EDITOR** security key.

- **UNL—Unlock Parameter File** [XTVS PKG MGR PARAM UNLOCK ACTION]: Displays a list of lock files (.LCK) for Package Parameter files and prompts the user for the number of the Extract Package Parameter file (i.e., **XTMPSIZE\*.LCK**) to delete (see Section [2.2.16](#)). Deletion of a lock file unlocks the Package Parameter file. The lock files have the following file name format:

**XTMPSIZE\_<user initials><mm-dd-yy\_hhmm>.LCK**

This action is locked with the **XTVS EDITOR** security key.

- **REQ—Remote VistA Extract Query** [XTVS PKG EXT QUERY REMOTE ACTION]: Allows a user to request a Package file extract from any Production VistA (see Section [2.2.1.2](#)). If a Package file extract is requested from FORUM, the user can also request a VistA Package size report for all packages on FORUM.
- **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION]: Prompts the user for a package and a VistA domain to request a size report for the selected package (see Section [2.2.14](#)). A size report query message is sent to the selected VistA domain. These actions are available from the “**VistA Package Size Analysis Manager**” and the “**VistA Package Size Analysis Manager - Package Statistics**” screens:
  - “**VistA Package Size Analysis Manager**” Screen—When the **RVQ** action is run from this screen, the request prompts the user to select a Package Parameter file and sends the request to the remote VistA, so the report can be created on the remote VistA.
  - “**VistA Package Size Analysis Manager - Package Statistics**” Screen—When the **RVQ** action is run from this screen, the request sends the Package Parameter file used to create the displayed report to the remote VistA, so that an apples-to-apples size report is returned from the remote VistA. That is the same package parameters that are used to create the report.
- **SHD—Swap Header** [XTVS PKG RPT SWAP HEADER]: Changes the ListMan header section on the VistA Package Size Report for all packages to the alternate header (see Section [2.2.17](#)). This action is only active when a user readable report for all packages is displayed. For example, this action is *not* active on a screen if the date headings are displayed next to the data on the VistA Size Report for a single package.
- **[XTVS BLANK 1]**: This protocol is used to format spaces in ListMan menu lists. It is *not* a user-selectable action.

## 1.5 Security Key

The VistA Package Size Reporting Tool has one Security key:

### XTVS EDITOR

Users *must* hold the **XTVS EDITOR** security key in order to execute the following VistA Package Size Reporting Tool (VPSRT) Analysis Manager actions and menus:

- [\*\*EM—Extract Manager\*\*](#) [XTVS PKG MGR EXT MNGR ACTION] action
- [\*\*DPF—Delete Package Parameter File\*\*](#) [XTVS PKG MGR PARAM FILE DELETE ACTION] action
- [\*\*CHD—Change Host Directory\*\*](#) [XTVS SITE PARAMETERS] action
- [\*\*PMD—Display/Edit Package Parameters\*\*](#) [XTVS PKG MGR PARAM DISP/EDIT ACTION] action
- [\*\*UNL—Unlock Parameter File\*\*](#) [XTVS PKG MGR PARAM UNLOCK ACTION] action

## 1.6 Lock Function

The VistA Package Size Reporting Tool (VPSRT) includes a Lock function via the [\*\*UNL—Unlock Parameter File\*\*](#) [XTVS PKG MGR PARAM UNLOCK ACTION] action. If a lock is obtained by the action, it indicates the lock was obtained and then continues. If the Package Parameter file is locked by another user, a message is displayed to the user indicating that the file is locked by another user.

The following VistA Package Size Reporting Tool (VPSRT) Analysis Manager actions and menus check the selected Extract Package Parameter file lock before continuing:

- [\*\*PMD—Display/Edit Package Parameters\*\*](#) [XTVS PKG MGR PARAM DISP/EDIT ACTION]
- [\*\*VSR—Display VistA Size Report\*\*](#) [XTVS PKG MGR VISTA SIZE RPT]
- [\*\*DPF—Delete Package Parameter File\*\*](#) [XTVS PKG MGR PARAM FILE DELETE ACTION]
- [\*\*DC—Display Captioned Parameter\*\*](#) [XTVS PKG MGR PARAM DISP CAPTION ACTION]
- [\*\*EPP—Edit Package Parameters\*\*](#) [XTVS PKG MGR EDIT PACKAGE PARM ACTION]
- [\*\*DPE—Delete Package Parameter Entry\*\*](#) [XTVS PKG MGR DEL PACKAGE PARM ACTION]
- [\*\*SPP—Save Package Parameter Changes\*\*](#) [XTVS PKG MGR SAVE PACKAGE PARM ACTION]

- **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION] and [XTVS PKG QUERY REMOTE VISTA SIZE ACTION]

When a lock is requested and received, the text in [Figure 4](#) is displayed:

**Figure 4: Lock Function Message—Lock Obtained (Requested and Received)**

```
XTMPSIZE_QG_Demo.DAT LOCK obtained.
```

Press Return to continue:

When a file lock is released, the text in [Figure 5](#) is displayed:

**Figure 5: Lock Function Message—Lock Released**

```
Parameter file XTMPSIZE_QG_Demo.DAT LOCK released.
```

Press Return to continue:

When a lock request is denied, the text in [Figure 6](#) is displayed:

**Figure 6: Lock Function Message—Lock Request Denied**

```
<* LOCK request denied! Try again later. *>
```

```
Parameter file XTMPSIZE_QG_Demo.DAT LOCKED by $JOB PID ####
```

Press Return to continue:

If a lock becomes corrupted while a Package Parameter file is being used, the message in [Figure 7](#) is displayed:

**Figure 7: Lock Function Message—Lock Error: Corrupted while Package Parameter File in Use**

```
<* LOCK ERROR. LOCK required to proceed. Check LOCK file Integrity. *>
```

```
LOCK Check Failure: Parameter file has been UNLOCKED by another process!
```

Press Return to continue:

When a lock is being released, it is checked to confirm it is still held by the releasing user. If the release check finds the lock corrupted, the message in [Figure 8](#) is displayed:

**Figure 8: Lock Function Message—Lock Check Failure**

```
LOCK Check Failure: Parameter file has been UNLOCKED by another process!  
Press Return to continue:
```

## 1.7 Temporary Globals

This section describes the **^TMP** globals used to sort and count the package data. The VistA Package Size Reporting Tool (VPSRT) uses these **^TMP** global arrays to build screens for double counting Package Prefixes. These arrays serve as indexes for package prefixes from both KIDS patch build entries and the Package Parameter file initialized from the PACKAGE (#9.4) file on FORUM.

These **^TMP** global indexes are used to improve the accuracy of package report statistics. The system is designed to identify and eliminate Prefixes assigned to multiple packages from being used to identify components counted in both packages.

The following three conditions affect the package size report for a multiply assigned Prefix:

- Packages assigned the Prefix are both in the Package Parameter file.
- Prefix is or is not a Primary Prefix for one of the packages.
- Prefix is or is not used in the name of the KIDS builds for one of the packages.

### Prefix Types

The following are the different Prefix types:

- **Primary Prefix**—Always used to identify package components.
- **KIDS Build Prefix**—Always used to identify package components. The KIDS Build Prefix is the prefix used by a package in the Package Parameter file to name KIDS builds for that packages' patches.
- **Additional Prefix**—Used to identify components in multiple packages when the Prefix is defined for those packages.

### Special Conditions

- When a Prefix is used as a **Primary Prefix** for one package and a **KIDS Build Prefix** for a different package, the Prefix is used to count components for *both* packages.
- An **Additional Prefix** is *not* used to identify components in a package when another package in the Package Parameter file defines the Prefix as either the **KIDS Build Prefix** or **Primary Prefix**.

- An **Additional Prefix** is used to identify components in a package when it is a subset of a **Primary Prefix** or a **KIDS Build Prefix** for a package in the Package Parameter file.

## 1.7.1 ^TMP Globals Used by Report of All Packages

### 1.7.1.1 ^TMP("XTVS-FORUMPKG",\$J,) Array

The ^TMP("XTVS-FORUMPKG",\$J,<XTMP\*.DAT line item #>) array is an array of lines loaded from the selected XTMP\*.DAT file.

Each line contains a caret (^)-delimited data elements with some fields containing a pipe character (|)-delimited sub-elements.

The array is used to extract package parameter data for each package defined in the selected XTMP\*.DAT text file.

Created by a FOR loop that reads each line of the XTMP\*.DAT text file or line of text in the **XTVS: PACKAGE FILE EXTRACT & REPORT REQUEST** server message.

Code is in LOOP^XTVSRFL and SRVREXT^XTVSSVR.

Format:

`^TMP("XTVS-FORUMPKG",$J,<XTMP*.DAT line item #>)=`Package parameter data for a single VistA package.

## 1.7.2 ^TMP Globals Used by Report of Single Packages

### 1.7.2.1 ^TMP("XTVS-PARAM-CAP",\$J,) Array

The ^TMP("XTVS-PARAM-CAP",\$J) array is a set single line array and caption display array for action processing. This array is used to select a package to report.

Created by the SCAPARY^XTVSLP and CHXK^XTVSLPDC APIs.

Format:

`^TMP("XTVS-PARAM-CAP",$J,<pkg name>)=`<Data line read from the selected XTMP\*.DAT file>

`^TMP("XTVS-PARAM-CAP",$J,<pkg name>,1,"Package Name")=`<1st piece of XTMP\*.DAT file>

`^TMP("XTVS-PARAM-CAP",$J,<pkg name>,2,"Primary Prefix")=`<2nd piece of XTMP\*.DAT file>

`^TMP("XTVS-PARAM-CAP",$J,<pkg name>,3,"*Lowest File#")=`<3rd piece of XTMP\*.DAT file>

`^TMP("XTVS-PARAM-CAP",$J,<pkg name>,4,"*Highest File#")=`<4th piece of XTMP\*.DAT file>

$^{\text{TMP}}(\text{"XTVS-PARAM-CAP"}, \text{$J}, <\text{pkg name}>, 5, \text{"Additional Prefixes"}) = <5\text{th piece of } X\text{TMP}^*\text{.DAT file}>$   
 $^{\text{TMP}}(\text{"XTVS-PARAM-CAP"}, \text{$J}, <\text{pkg name}>, 6, \text{"Excepted Prefixes"}) = <6\text{th piece of } X\text{TMP}^*\text{.DAT file}>$   
 $^{\text{TMP}}(\text{"XTVS-PARAM-CAP"}, \text{$J}, <\text{pkg name}>, 7, \text{"File Numbers"}) = <7\text{th piece of } X\text{TMP}^*\text{.DAT file}>$   
 $^{\text{TMP}}(\text{"XTVS-PARAM-CAP"}, \text{$J}, <\text{pkg name}>, 8, \text{"File Ranges"}) = <8\text{th piece of } X\text{TMP}^*\text{.DAT file}>$   
 $^{\text{TMP}}(\text{"XTVS-PARAM-CAP"}, \text{$J}, <\text{pkg name}>, 9, \text{"Parent Package"}) = <9\text{th piece of } X\text{TMP}^*\text{.DAT file}>$

### 1.7.3 $^{\text{TMP}}$ Globals Used by Report for both All & Single Packages

#### 1.7.3.1 $^{\text{TMP}}(\text{"XTVS-KIDSPFX-IDX"} , \text{$J},)$ Array

The  $^{\text{TMP}}(\text{"XTVS-KIDSPFX-IDX"}, \text{$J}, \text{KIDSPRFX})$  array creates Prefix-Package Indexes from KIDS. This array is used as a check to screen double counting overlap package components by **Primary Prefix**. Each KIDS' primary prefix node is assigned to the Package Name in the local Package File pointed to by a KIDS build in the BUILD (#9.6) file.

Created by **KIDSIDX $^{\text{XTVSRL1}}$** .

Format:

$^{\text{TMP}}(\text{"XTVS-KIDSPFX-IDX"}, \text{$J}, <\text{prefix used in KIDS build name}>) = <\text{Package name from Package file entry pointed to by KIDS build}>$

#### 1.7.3.2 $^{\text{TMP}}(\text{"XTVS-IDX-PKG"}, \text{$J},)$ Array

The  $^{\text{TMP}}(\text{"XTVS-IDX-PKG"}, \text{$J}, <\text{pkg -primary/additional-prefix}>, <\text{pkg name}>)$  array sets an array index node for each prefix assigned to the Package from the Package Parameter file equal to the KIDS build patch assigned to the package. This array is used to identify multiple packages using the same prefix.

Created by a **FOR** loop through  $^{\text{TMP}}(\text{"XTVS-PARAM-CAP"}, \text{$J}, <\text{pkg name}>)$  arrays.

Code is in **TALLYRPT $^{\text{XTVSRL1}}$**  and **PARAMIDX $^{\text{XTVSRL1}}$** .

Format:

$^{\text{TMP}}(\text{"XTVS-IDX-PKG"}, \text{$J}, <\text{pkg -primary/additional prefix}>, <\text{pkg name}>) = 1$  or “” to indicate if the prefix is a KIDS build prefix for the package

### **1.7.3.3 ^TMP("XTVS-PREFIX-IDX", \$J,,) Array**

The ^TMP("XTVS-PREFIX-IDX", \$J, <XTMP\*.DAT package name>, <XTMP\*.DAT package primary prefix>) array creates a Package-Prefix index from the package parameters for each application in the selected XTMP\*.DAT file. The array is used to identify primary prefixes defined in the selected XTMP\*.DAT file.

Created by a FOR loop through the ^TMP("XTVS-FORUMPKG", \$J, <pkg name>, <pkg prefix>) and ^TMP("XTVS-PARAM-CAP", \$J, <pkg name>, <pkg prefix>) arrays.

Code is in TALLYRPT^XTVSRFL and PARAMIDX^XTVSRFL1, respectively.

Format:

**^TMP("XTVS-PREFIX-IDX", \$J, <XTMP\*.DAT package name>, <XTMP\*.DAT package primary prefix>)=<NULL>**

### **1.7.3.4 ^TMP("XTVS-FORUM-PFXS", \$J,) Array**

The ^TMP("XTVS-FORUM-PFXS", \$J, <XTMP\*.DAT package primary prefix>) array creates a Prefix index from package parameters for each application in the selected XTMP\*.DAT file. The array is used to identify primary and additional prefix extensions that are primary prefixes for any package.

Created by TALLYRPT^XTVSRFL and PARAMIDX^XTVSRFL1.

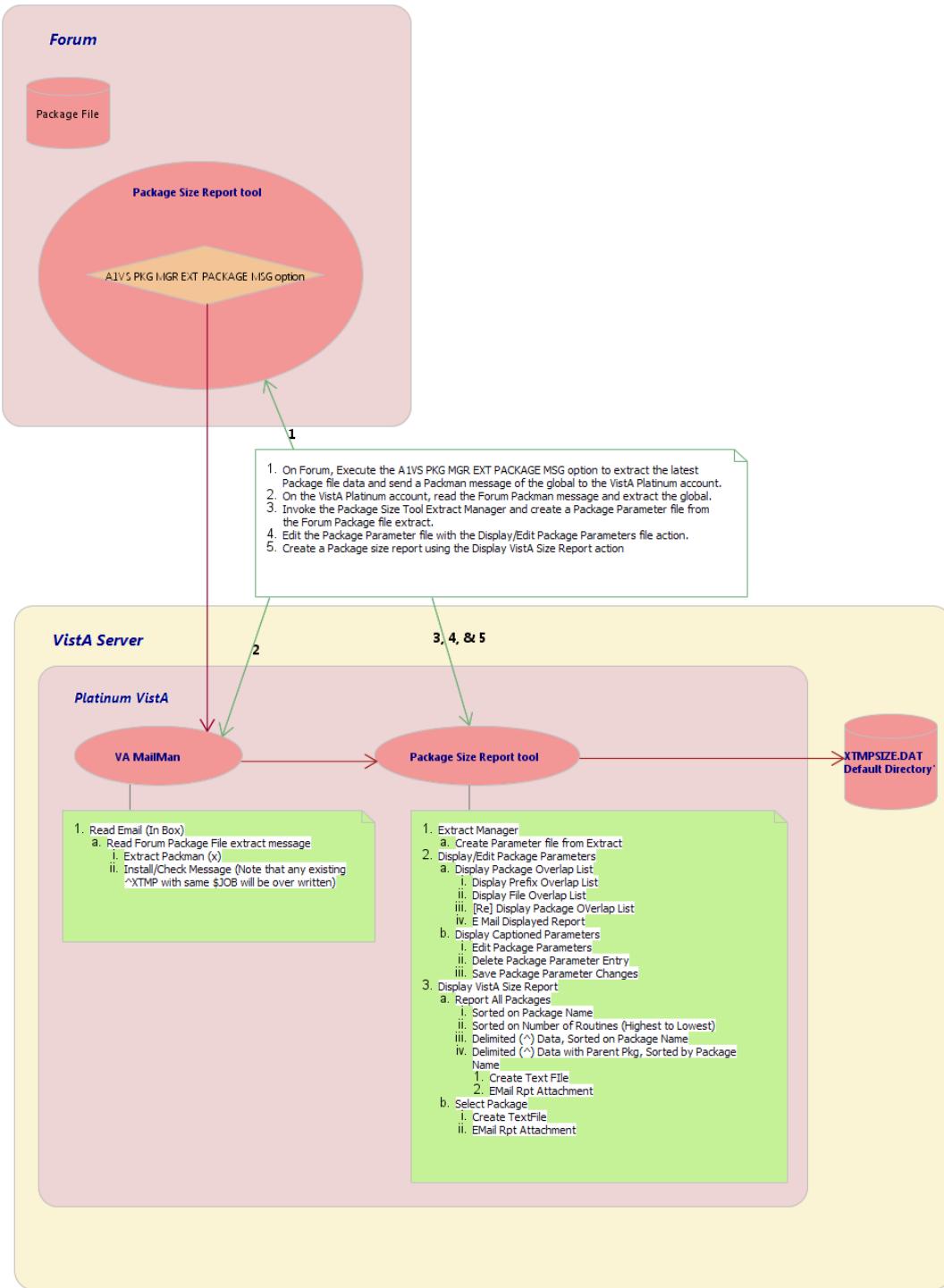
Format:

**^TMP("XTVS-FORUM-PFXS", \$J, PKGPFX)=<NULL>**

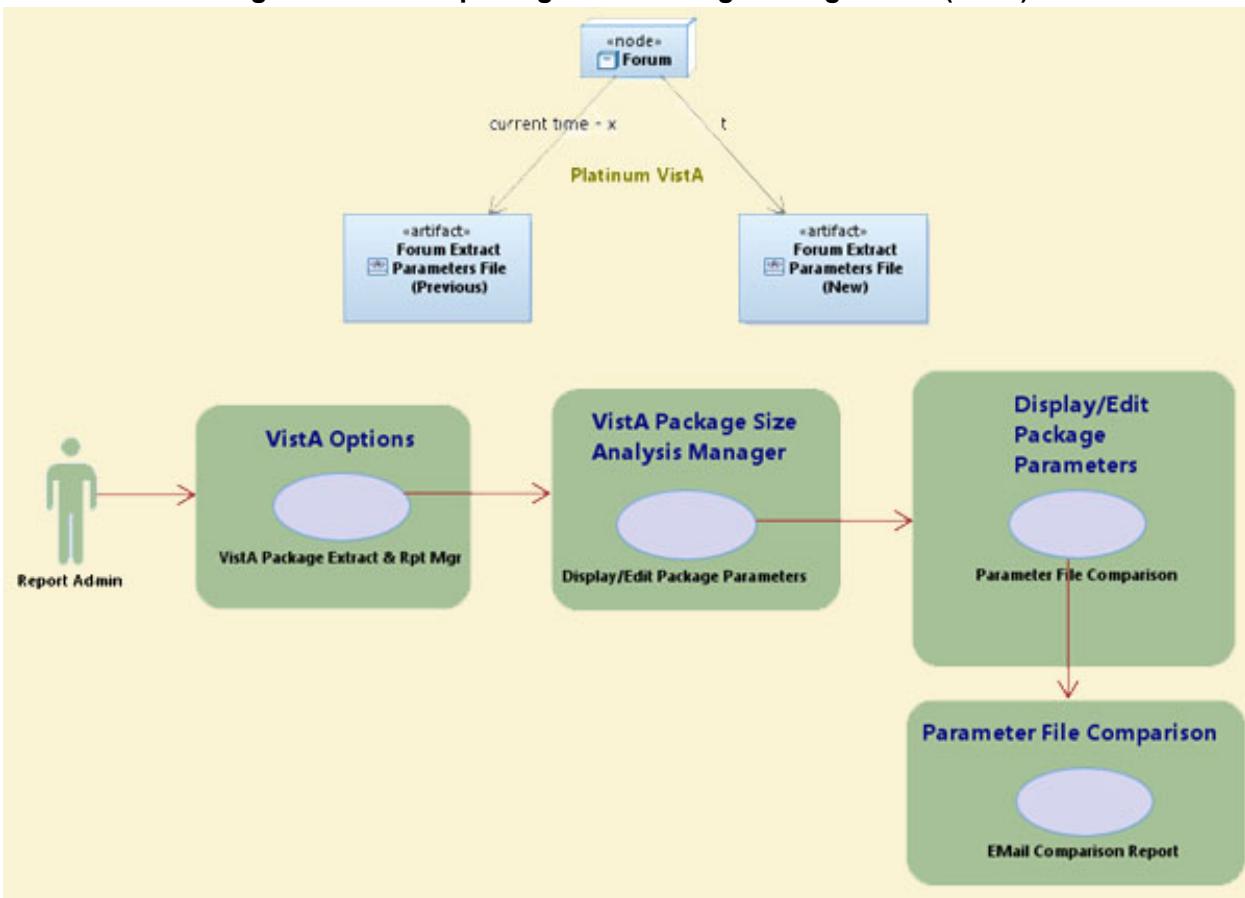
## 1.8 Data Flow

[Figure 9](#) describes the VistA Package Size Reporting Tool (VPSRT) data flow.

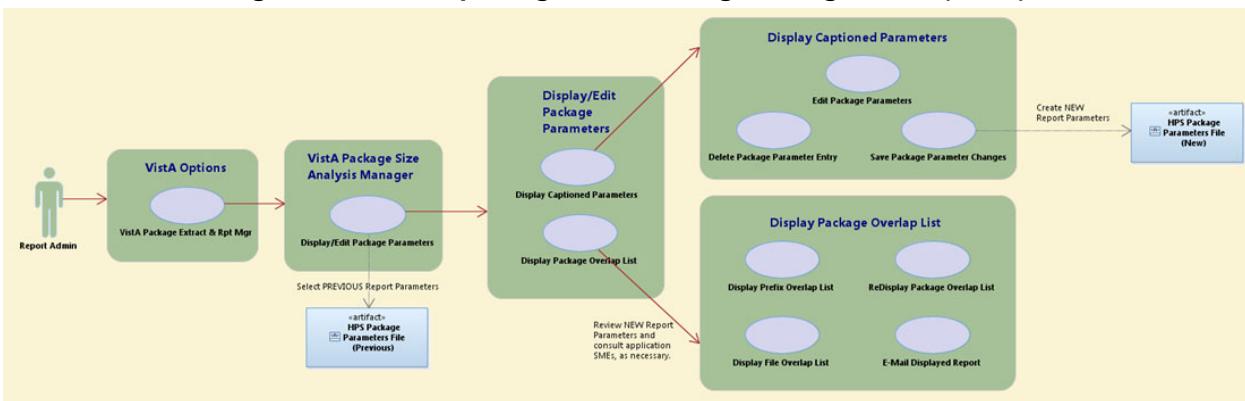
**Figure 9: VPS Reporting Tool—Data Flow and Basic Process Overview**



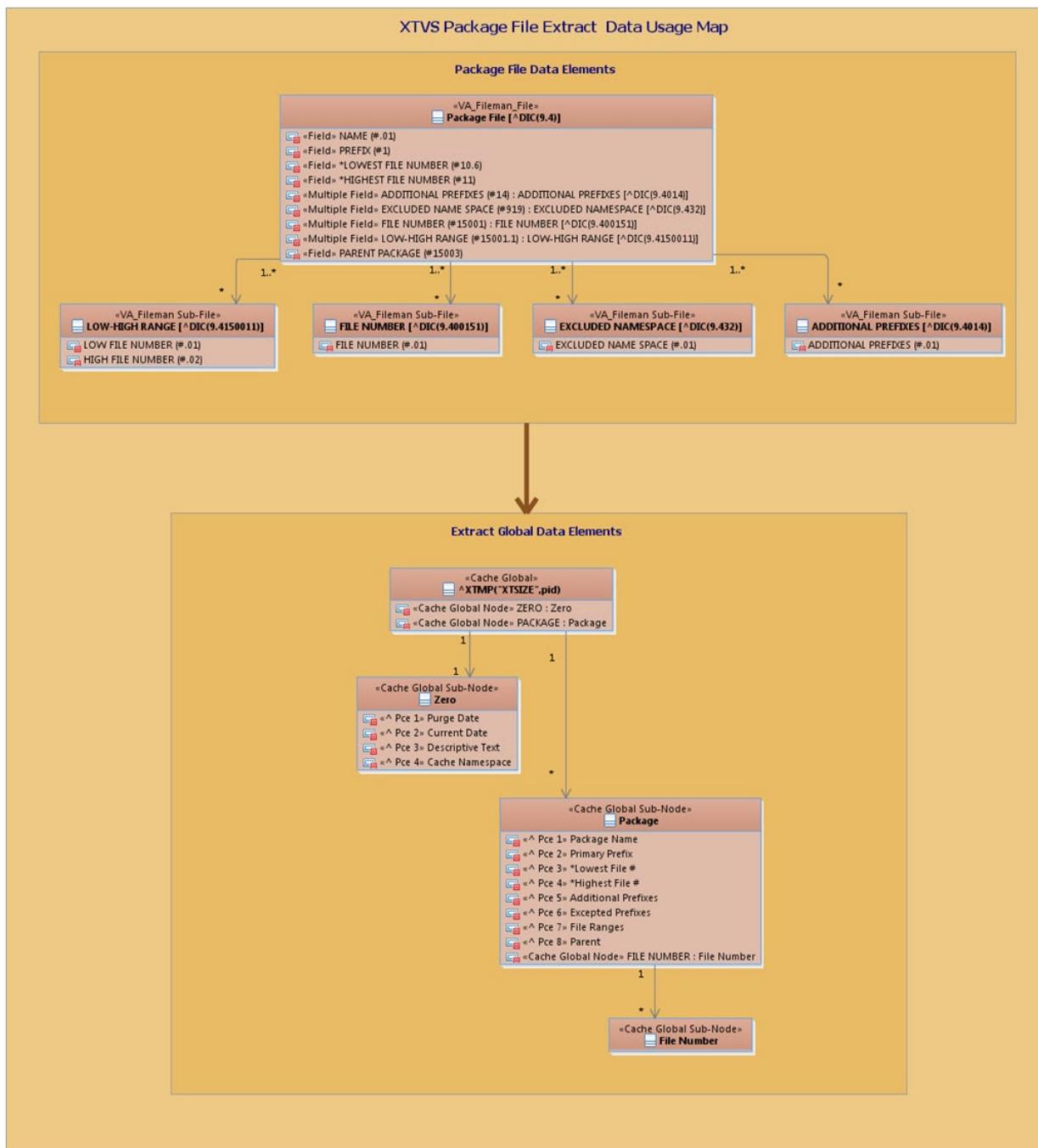
**Figure 10: VPS Reporting Tool—Package Changes Flow (1 of 2)**



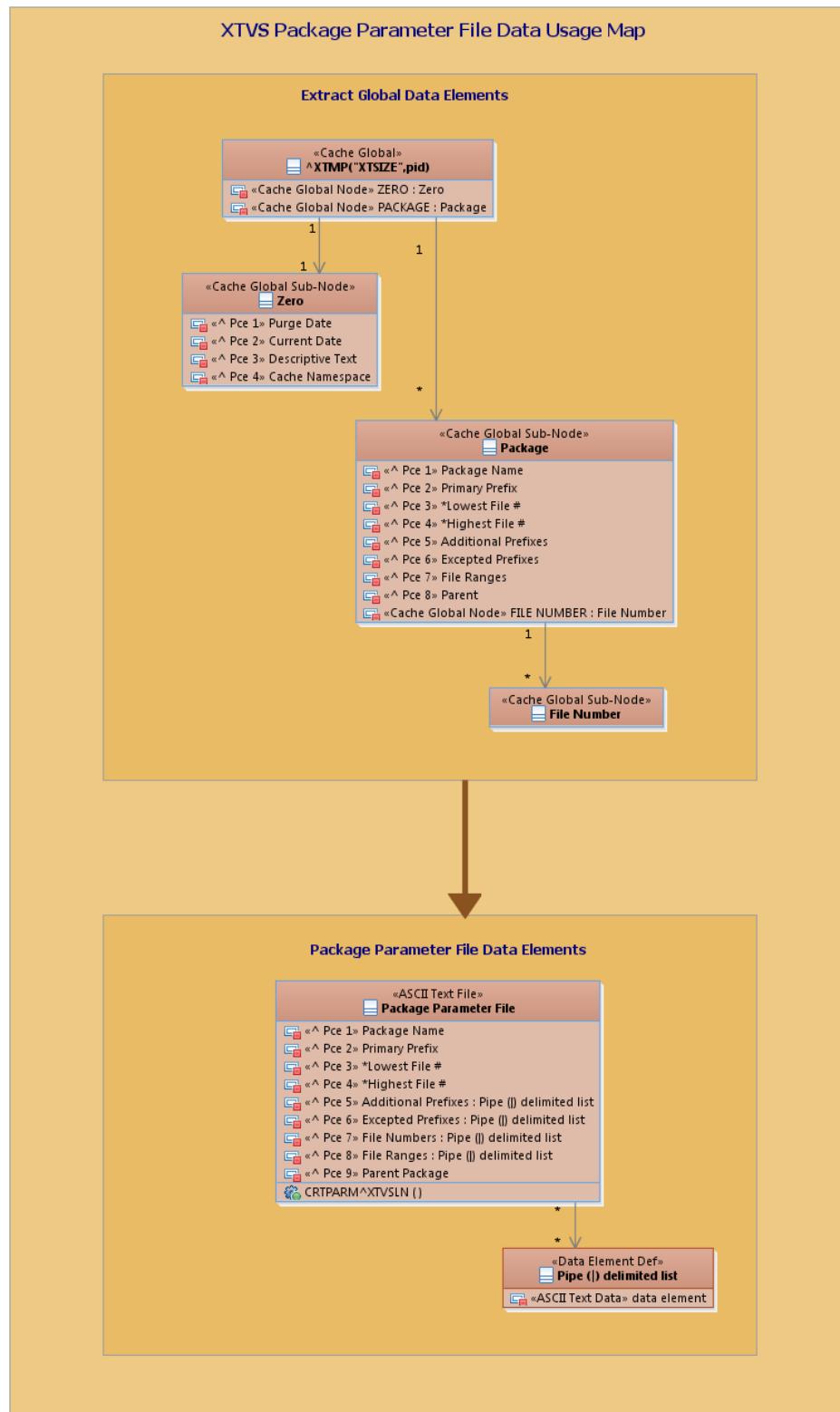
**Figure 11: VPS Reporting Tool—Package Changes Flow (2 of 2)**



**Figure 12: VPS Reporting Tool—Data Usage Map: Package File and Extract Global Data Elements**



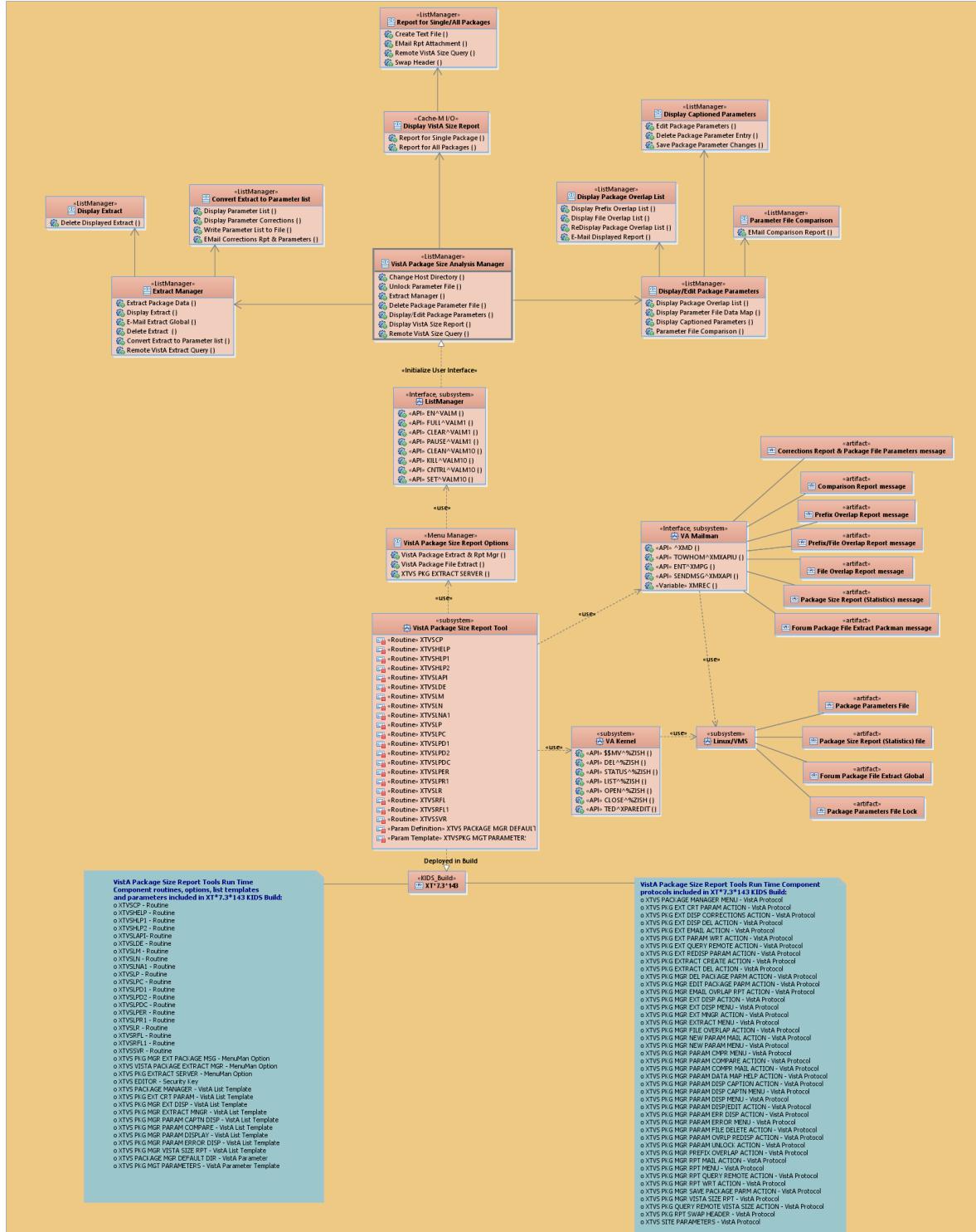
**Figure 13: VPS Reporting Tool—Data Usage Map: Extract Global and Package Parameter File Data Elements**



## 1.9 Run-Time Components

Figure 14 is a diagram of the VPS Reporting Tool run-time components:

Figure 14: VPS Reporting Tool—Run-Time Components



## 2 Using the VistA Package Size Reporting Tool

The VistA Package Size Reporting Tool (VPSRT) contains a suite of functionality that allows users to configure package parameters to report package size statistics without changing data in the Veterans Health Information Systems and Technology Architecture (VistA) PACKAGE (#9.4) file.

### 2.1 Package Parameter Generation and Statistics Reporting Flow—Overview

#### 2.1.1 Create New Package Parameter File

To create a *new* Package Parameter file (i.e., **XTMPSIZE\*.DAT**), do the following:

1. Extract the most current and accurate PACKAGE (#9.4) file data available. Currently, the most accurate PACKAGE (#9.4) file is located on FORUM (see Section [2.2.1](#)). This extract be completed by either of the following methods:
  - From FORUM via the **CE—Extract Package Data [XTVS PKG EXTRACT CREATE ACTION]** action on the “**VistA Package Size Analysis Manager – Extract Manager**” screen.

Or:

- From any VistA with VA MailMan access to FORUM via the **REQ—Remote VistA Extract Query [XTVS PKG EXT QUERY REMOTE ACTION]** action on the same ListMan screen.

If any of package names in the extract contain a double quote (“”), the following occurs:

- a. Double quote is converted to two single quotes to allow string parsing through the name.
  - b. User receives a VA MailMan message indicating the changes applied in the extract (see [Figure 15](#) and [Figure 29](#)).
2. Send a PackMan message of the extracted PACKAGE (#9.4) file global to a “Platinum VistA” system, which is a fully-patched Class I instance of VistA where the package size report functions are executed (see Section [2.2.1](#)).
  3. Read the FORUM PackMan message on the “Platinum VistA” system and extract the global from the message (see Section [2.2.2](#)).
  4. Invoke the **VistA Package Extract Manager [XTVS VISTA PACKAGE EXTRACT MGR]** option (see Section [2.2.3](#)). This opens the “**VistA Package Size Analysis Manager**” screen.

5. From the “VistA Package Size Analysis Manager” screen, invoke the **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION] action (see Section [2.2.4](#)). This opens the “VistA Package Size Analysis Manager - Extract Manager” screen.
6. From the “VistA Package Size Analysis Manager - Extract Manager” screen, select the **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION] action to create a Package Parameter file (i.e., **XTMPSIZE\*.DAT**) list (see Section [2.2.5](#)).
7. The system displays the “VistA Package Size Analysis Manager – Package Parameters” screen with a list of the Extract Package Parameter file (i.e., **XTMPSIZE\*.DAT**) created from the raw PACKAGE (#9.4) file extract data. The following actions are included:
  - **RPL—Display Parameter List** [XTVS PKG EXT REDISP PARAM ACTION] (see Section [2.2.5.1](#))
  - **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION] (see Section [2.2.5.2](#))
  - **WPF—Write Parameter List to File** [XTVS PKG EXT PARAM WRT ACTION] (see Section [2.2.6](#))
  - **EPC—Email Corrections Rpt & Parameters** [XTVS PKG MGR NEW PARAM MAIL ACTION] (see Section [2.2.5.3](#))

Use these actions as necessary to review the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) created (see Section [2.2.5](#)).

8. When satisfied with the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) created, invoke the **WPF—Write Parameter List to File** [XTVS PKG EXT PARAM WRT ACTION] action (see Section [2.2.6](#)). This creates a .DAT file in the VistA Package Size default directory with the following file name format:

**XTMPSIZE\_<user initials><mm-dd-yy\_hhmm>.DAT**



**REF:** For more information on setting the VistA Package Size default directory, see Section [2.2.15](#), “[Change Host File Directory](#).”.

Alternately, invoke the **EPC—Email Corrections Rpt & Parameters** [XTVS PKG MGR NEW PARAM MAIL ACTION] action (see Section [2.2.5.3](#)) to send the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) and corrections report to another server and move it to an alternate Package Parameters reporting system.

9. Return to the “VistA Package Size Analysis Manager” screen:
  - a. Enter **Quit** in the “VistA Package Size Analysis Manager - Package Parameters” screen.
  - b. Enter **Quit** again in the “VistA Package Size Analysis Manager - Extract Manager” screen.
10. Verify the new Package Parameter file (i.e., **XTPMSIZE\*.DAT**) has been added to the list for editing (see Section [2.2.7](#)).
11. Do a comparison to identify the differences between the *previous* FORUM Extract **XTPMSIZE\*.DAT** file and the *new* FORUM Extract **XTPMSIZE\*.DAT** file (see Section [2.2.8](#)):
  - a. From the “VistA Package Size Analysis Manager – Parameter Display” screen, select the **DO—Display Package Overlap List** [XTVS PKG MGR PARAM ERR DISP ACTION] action (see Section [2.2.9](#)).
  - b. If you need to change package parameters, from the “VistA Package Size Analysis Manager – Parameter Display” screen, select the **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION] action (see Section [2.2.10](#)).
12. Once the Package Parameter file (i.e., **XTPMSIZE\*.DAT**) has been updated to better reflect package definitions (see Sections [2.2.11](#) and [2.2.12](#)), return to the “VistA Package Size Analysis Manager” screen and find the newly updated Package Parameter file (i.e., **XTPMSIZE\*.DAT**) in the list.
13. From the “VistA Package Size Analysis Manager” screen, select the **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT] action (see Section [2.2.13](#)). It prompts the user for the Package Parameter file (i.e., **XTPMSIZE\*.DAT**) to use for reporting size statistics.

After choosing a Package Parameter file (i.e., **XTPMSIZE\*.DAT**), the user selects one of the following report options:

  - **Selected VistA Package**—Reports statistics for just the *selected* VistA package (see Section [2.2.13](#))
  - **ALL VistA Packages**—Reports statistics for *all* VistA packages according to the format of one of five report selections (see Section [2.2.13.2](#)).



**NOTE:** Reporting for “ALL VistA Packages” can take several minutes to complete.

14. When the report is displayed on the “**VistA Package Size Analysis Manager – Package Statistics**” screen, the user can select either of the following actions (see Section [2.2.13](#)):

- **[CTF—Create Text File](#)** [XTVS PKG MGR RPT WRT ACTION] (see [Figure 70](#) in Section [2.2.13](#))
- **[RVQ—Remote VistA Size Query](#)** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] (see Section [2.2.14](#))
- **[ER—Email Rpt Attachment](#)** [XTVS PKG MGR RPT MAIL ACTION] (see [Figure 71](#) in Section [2.2.13](#))
- **[SHD—Swap Header](#)** [XTVS PKG RPT SWAP HEADER] (see Section [2.2.17](#))

These actions allow users to write text files that can be input to other applications (e.g., Health Product Support [HPS] Parametric Estimation Model).

## 2.1.2 Update Existing Package Parameter File

To update an *existing* Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)), do the following:

1. Extract the most current and accurate PACKAGE (#9.4) file data available. Currently, the most accurate PACKAGE (#9.4) file is located on FORUM (see Section [2.2.1](#)).
2. Send a PackMan message of the extracted PACKAGE (#9.4) file global to a “Platinum VistA” system, which is a fully patched Class I instance of VistA where the package size report functions are executed (see Section [2.2.1](#)).
3. Read the FORUM PackMan message on the “Platinum VistA” system and extract the global from the message (see Section [2.2.2](#)).
4. Invoke the **VistA Package Extract Manager** [XTVS VISTA PACKAGE EXTRACT MGR] option (see Section [2.2.3](#)). This opens the “**VistA Package Size Analysis Manager**” screen.
5. From the “**VistA Package Size Analysis Manager**” screen, invoke the **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION] action (see Section [2.2.4](#)). This opens the “**VistA Package Size Analysis Manager - Extract Manager**” screen.
6. From the “**VistA Package Size Analysis Manager - Extract Manager**” screen, select the **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION] action to create a Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) list (see Section [2.2.5](#)).
7. When satisfied with the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) created, invoke the **WPF—Write Parameter List to File** [XTVS PKG EXT PARAM WRT ACTION] action (see Section [2.2.6](#)).

This creates a .DAT file in the VistA Package Size default directory with the following file name format:

**XTMPSIZE\_<user initials><mm-dd-yy\_hhmm>.DAT**



**REF:** For more information on setting the VistA Package Size default directory, see Section [2.2.15](#), “[Change Host File Directory](#).”

Alternately, invoke the **EPC—Email Corrections Rpt & Parameters** [XTVS PKG MGR NEW PARAM MAIL ACTION] action (see Section [2.2.5.3](#)) to send the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) and corrections report to another server and move it to an alternate Package Parameters reporting system.

8. Return to the “VistA Package Size Analysis Manager” screen:
  - a. Enter **Quit** on the “VistA Package Size Analysis Manager - Package Parameters” screen.
  - b. Enter **Quit** again on the “VistA Package Size Analysis Manager - Extract Manager” screen.
9. Verify the new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) has been added to the list for editing (see Section [2.2.7](#)).
10. Do a comparison to identify the differences between the *previous* FORUM Extract [XTMPSIZE\\*.DAT](#) file and the *new* FORUM Extract [XTMPSIZE\\*.DAT](#) file (see Section [2.2.8](#)).
  - a. From the “VistA Package Size Analysis Manager – Parameter Display” screen, select the **DO—Display Package Overlap List** [XTVS PKG MGR PARAM ERR DISP ACTION] action (see Step 1 in Section [2.2.9](#)).
  - b. From the “VistA Package Size Analysis Manager – Parameter Display” screen, invoke the **CPF—Parameter File Comparison** [XTVS PKG MGR PARAM COMPARE ACTION] action and select the previous FORUM extract Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) (see Step 4 in Section [2.2.9](#)).
  - c. If you need to change package parameters, from the “VistA Package Size Analysis Manager – Parameter Display” screen, select the **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION] action (see Section [2.2.10](#)).
11. From the “VistA Package Size Analysis Manager” screen, invoke the **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION] action. Select the previous Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) used to generate the last VistA Size Report (see Section [2.2.8](#)).



**NOTE:** The **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION] action is locked with the **XTVS EDITOR** security key.

12. From the “**VistA Package Size Analysis Manager – Parameter Display**” screen, invoke the **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION] action to apply the necessary changes identified from the comparison of the new FORUM Package Extract to the previous FORUM Package Extract (see Section [2.2.10](#)).
13. From the “**VistA Package Size Analysis Manager - Parameter Display**” screen, use the **DO—Display Package Overlap List** [XTVS PKG MGR PARAM ERR DISP ACTION] action (see Step 1 in Section [2.2.9](#)).



**NOTE:** If package edits are made, be sure to save the changes with the **SPP—Save Package Parameter Changes** [XTVS PKG MGR SAVE PACKAGE PARM ACTION] action on the “**VistA Package Size Analysis Manager – Captioned List**” screen (see Section [2.2.12](#)). Make sure that you save the file to the *same* name.

14. Once the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) has been updated to better reflect package definitions, the user can return to the “**VistA Package Size Analysis Manager**” screen and find the newly updated Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) from the list (see Step 3 in Section [2.2.12](#)).
15. From the “**VistA Package Size Analysis Manager**” screen, select the **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT] action (see Section [2.2.13](#)). It prompts the user for the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) to use for reporting size statistics.

After choosing a Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)), the user selects one of the following report options:

- **Selected VistA Package**—Reports statistics for just the *selected* VistA package (see Section [2.2.13](#))
- **ALL VistA Packages**—Reports statistics for *all* VistA packages according to the format of one of five report selections (see Section [2.2.13.2](#)).



**NOTE:** Reporting for “**ALL VistA Packages**” can take several minutes to complete.



**NOTE:** This step reports a VistA Package Size on the *local* VistA instance. A size report for a single VistA package can be requested from a *remote* VistA instance via the **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] action on the “**VistA Package Size Analysis Manager**” screen.

16. When the report is displayed on the “**VistA Package Size Analysis Manager – Package Statistics**” screen, users can select either of the following actions (see Section [2.2.13](#)):

- [\*\*CTF—Create Text File\*\*](#) [XTVS PKG MGR RPT WRT ACTION] (see [Figure 70](#) in Section [2.2.13](#))
- [\*\*RVQ—Remote VistA Size Query\*\*](#) [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] (see Section [2.2.14](#))
- [\*\*ER—Email Rpt Attachment\*\*](#) [XTVS PKG MGR RPT MAIL ACTION] (see [Figure 71](#) in Section [2.2.13](#))
- [\*\*SHD—Swap Header\*\*](#) [XTVS PKG RPT SWAP HEADER] (see Section [2.2.17](#))

These actions allow users to write text files that can be input to other applications (e.g., Health Product Support [HPS] Parametric Estimation Model).



**NOTE:** The “**VistA Package Size Analysis Manager – Package Statistics**” ListMan screen also includes the **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] action, which allows the user to query another VistA instance for a single package size report. That report could be used to compare to the size reported for the same package on the local VistA.

## 2.2 Package Parameter Generation and Statistics Reporting Flow—Detail



**NOTE:** The names of packages should *not* contain double quotation marks. If a PACKAGE (#9.4) file extract includes a package name that contains double quotation marks (“”), the tool *cannot* parse the name of the package. Double quotation marks (“”) need to be “cleaned up” from package names *before* the extract is completed.

### 2.2.1 Extract Package File Data

Extract the most current and accurate PACKAGE (#9.4) file data available. Currently, the most accurate PACKAGE (#9.4) file is located on FORUM.

To extract package file data, use either of the following methods:

- [\*\*Send Package File Extract via Packman Option\*\*](#) [XTVS PKG MGR EXT PACKAGE MSG]
- [\*\*Remote VistA Extract Query Action\*\*](#) [XTVS PKG EXT QUERY REMOTE ACTION]

If any of package names in the extract contain a double quote ("’), the following occurs:

1. Double quote is converted to two single quotes to allow string parsing through the name.
2. User receives a VA MailMan message, as shown in [Figure 15](#):

**Figure 15: Sample VA MailMan Message—Double Quote Edits**

```
Subj: PACKAGE EXTRACT (SITE1PRO) ; data cleanup! [#160427] 10/08/20@13:36
3 lines
From: POSTMASTER In 'IN' basket. Page 1
-----
Notice for Package Extract on SITE1PRO.
Data was cleaned up on ABC 4'' LABEL extract.
Double Quotes changed to 2 single quotes in the ABC 4'' LABEL Package name.

Enter message action (in IN basket): Ignore//
```

#### 2.2.1.1 Send Package File Extract via Packman Option

To extract the most current and accurate PACKAGE (#9.4) file data using the **Send Package File Extract via Packman** [XTVS PKG MGR EXT PACKAGE MSG] option, do the following:

1. Execute the **Send Package File Extract via Packman** [XTVS PKG MGR EXT PACKAGE MSG] option, as shown in [Figure 16](#).
2. Send the PackMan message of the PACKAGE (#9.4) file global extract to the user who will extract the global on a “Platinum VistA” system (e.g., HPS “Platinum VistA” system).



**NOTE:** A “Platinum VistA” system is a fully patched Class I instance of VistA where the package size report functions are executed.

**Figure 16: Send Package File Extract via Packman Option—Package File Extract**

```
Select OPTION NAME: XTVS PKG MGR EXT PACKAGE MSG
Send Package File Extract via Packman
Send mail to: XUUSER,ONE// <Enter> XUUSER,ONE
Select basket to send to: IN// <Enter>
And Send to: ONE.XUUSER@VA.GOV
Looking in Internet Suffix file... US GOVERNMENT via REDACTED.VA.GOV
And Send to: <Enter>

Created by XUUSER,ONE at SITE1PRO.REDACTED.VA.GOV on Monday, 10/31/16 at
14:21......

^XTMP("XTSIZE",7032) Emailed via PackMan. [MSG #:77320]

Press Return to continue:
```

### **2.2.1.2 Remote VistA Extract Query Action**

Alternatively, to request a Package file extract from FORUM using the **REQ—Remote VistA Extract Query** [XTVS PKG EXT QUERY REMOTE ACTION] action, do the following:

1. Navigate to the “VistA Package Size Analysis Manager – Extract Manager” screen, as shown in [Figure 17](#).
2. From the “VistA Package Size Analysis Manager – Extract Manager” screen, select the **REQ—Remote VistA Extract Query** [XTVS PKG EXT QUERY REMOTE ACTION] action.
3. At the “Do you want to query the Forum Package File? YES//” prompt, enter **YES** (default).
4. At the “Do you want a VistA Package Size Report for all packages on Forum? NO//” prompt, enter **NO** (default). If you answer **YES** to this prompt, the system sends a VistA Package Size Report for all packages on FORUM.

**Figure 17: “VistA Package Size Analysis Manager – Extract Manager” Screen—Remote VistA Extract Query Action**

```
Select OPTION NAME: XTVS VISTA PACKAGE EXTRACT MGR <Enter> VistA Package Extract Manager

Do you want to Display XTMPSIZE*.BAK (backup files) ? NO// <Enter>

VistA Package Size Manager Jul 29, 2020@09:44:36 Page: 1 of 1
VistA Package Size Analysis Manager
Version: 7.3 Build: 90

XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/
XTMPSIZE.DAT Package Parameter file list in /srv/vista/<scd>/user/hfs/:
-----
1) XTMPSIZE_GTS11-15-16_1436.DAT
2) XTMPSIZE_GTS4-2-20_0944.DAT
3) XTMPSIZE_GTS5-14-20_1023.DAT
4) XTMPSIZE_GTS5-14-20_1025.DAT
5) XTMPSIZE_GTS6-29-20_0712.DAT
6) XTMPSIZE_QG_Demo.DAT

Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display VistA Size Report UNL Unlock Parameter File
RVQ Remote VistA Size Query
Select Action:Quit// EM <Enter> Extract Manager

Package Extract Manager Jul 29, 2020@09:44:38 Page: 1 of 1
VistA Package Size Analysis Manager - Extract Manager
Version: 7.3 Build: 90

Extracted package ^XTMP global list
XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID System Date/Time
-----
No Extracts defined.

Enter ?? for more actions and Help
CE Extract Package Data DEL (Delete Extract)
ED (Display Extract) CXP (Convert Extract to Parameter list)
ME (E Mail Extract Global) REQ Remote VistA Extract Query
Select Action:Quit// REQ <Enter> Remote VistA Extract Query

The response from a remote VistA can take some time.
```

```
Do you want to query the Forum Package File? YES// <Enter>  
Do you want a VistA Package Size Report for all packages on Forum? NO//  
<Enter>
```

If you answer “YES” to this prompt, the system sends a VistA Package Size Report for all packages on FORUM.

```
Query message sent! Message # 91525  
Press Return to continue: <Enter>  
  
Package Extract Manager      Jul 29, 2020@09:45:10      Page: 1 of 1  
VistA Package Size Analysis Manager - Extract Manager  
Version: 7.3      Build: 90  
  
Extracted package ^XTMP global list  
XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/  
  
Process ID      System      Date/Time  
-----  
No Extracts defined.  
  
Enter ?? for more actions and Help  
CE  Extract Package Data      DEL (Delete Extract)  
ED  (Display Extract)      CXP (Convert Extract to Parameter list)  
ME  (E Mail Extract Global)      REQ Remote VistA Extract Query  
Select Action:Quit//
```

### 2.2.1.3 Package Extract Errors

Error messages are returned to the requesting user when the remote server fails to return the requested extract.

The package extract errors in [Figure 18](#) are also added to the Kernel error trap on the remote VistA when the error occurs:

**Figure 18: Sample Package Extract Errors Added to Kernel Error Trap**

```
16)  ONERPT^XTVSSVR : Package extract error10:14:40 SITE1PRO:DEVR0TSVR 31493  
13)  RPTSIZE^XTVSSVR : Package extract error10:14:34 SITE1PRO:DEVR0TSVR 31493  
12)  EEXT^XTVSSVR : Package extract error10:14:33 SITE1PRO:DEVR0TSVR 31493  
11)  EEXT^XTVSSVR : Package extract error10:14:32 SITE1PRO:DEVR0TSVR 31493
```

The Package Extract error is broken into the following components (see [Figure 18](#)):

- Item Number—The item number for the Error entry. Developers enter this number to select an error for view (e.g., 16, 15, 14,...).
- Tag^Routine—This is the Tag^Routine that generated the error (e.g., ONERPT^XTVSSVR).
- Text following the colon:
  - Error Description—The is the error description (e.g., Package extract error).
  - Error Time—Time the error occurred (e.g., 10:14:40)
  - Cache/IRIS Namespace (e.g., SITE1PRO).
  - Name of the Server Host (e.g., DEVR0TSVR).
  - Job Process ID (e.g., 31493).

**Figure 19: Sample Package Size Report Error Message—Extract Failed: ^XTMP Not Created on Server**

```
Subj: PACKAGE SIZE REPORT (SITE1PRO ; remote request FAILED! [#91771]
08/21/20@10:27 2 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Remote package size report on SITE1PRO failed!!
Extract failed! ^XTMP("XTSIZE",123) not created on Server!

Enter message action (in IN basket): Ignore//
```

## 2.2.2 Unload Package Extract Global on VistA

Extracting the global from the PackMan message creates an `^XTMP("XTSIZE",$JOB)` global. `$JOB` is assigned by the Caché process on FORUM from which the PackMan message was created. Extracting the message overwrites any existing `^XTMP("XTSIZE")` global with the same `$JOB` process number.



**NOTE:** You should *not* overwrite an existing `^XTMP("XTSIZE")` global if it has more current and accurate PACKAGE (#9.4) file data than that which is extracted from the current PackMan message.

To unload the Package Extract global on the “Platinum VistA” system, do the following:

1. On the “Platinum VistA” system:
  - a. Open VistA **MailMan 8.0**.
  - b. Read the PackMan message containing the PACKAGE (#9.4) file global extract, as shown in [Figure 20](#):

**Figure 20: VistA MailMan PackMan Message Extract: Example (REDACTED)**

The screenshot shows a VistA MailMan application window titled "Albany OI FO Development: ssh - #1". The window contains a message extract from a PackMan message. The message starts with "From: XUUSER,ONE In 'IN' basket. Page 1". It then lists several global definitions starting with `^XTMP`, such as `^XTMP("A1SIZE",540058291,`, `^XTMP TEMP GLOBAL`, and `^XTMP("A1SIZE",540058291,0)`. The extract continues with various file names and global definitions, including `PRCA`, `PRYZ`, and `AR V3.7 PRE-INSTALL`. At the bottom, there are prompts for the user to enter a message action: "Enter RETURN to continue or '^' to exit: ^" and "Enter message action (in IN basket): Ignore// Xtract PackMan". The status bar at the bottom shows "348, 77" and "VT500-7 -- ecp.cor.fo-albany.med.va.gov via SECURE SHELL".

```
From: XUUSER,ONE In 'IN' basket. Page 1
-----
$TXT Created by XUUSER,ONE      at PATTRW. *REDACTED* .VA.GOV on Monday, 10/3
1/16 at 14:21
$END TXT
$GLO ^XTMP("A1SIZE",540058291,
^XTMP
TEMP GLOBAL
^XTMP("A1SIZE",540058291,0)
3161031.142102^PATTRW
^XTMP("A1SIZE",540058291,"ACCOUNTS RECEIVABLE")
PRCA^^^PRYIRC1^^^
^XTMP("A1SIZE",540058291,"ADP MODULE")
PRAP^490^499^^PRAPZI^PRAPI^PRAPXI^^
^XTMP("A1SIZE",540058291,"ADVERSE REACTION TRACKING")
GMRA^120.8^120.89^GMAI^^^
^XTMP("A1SIZE",540058291,"AMIS/CAP")
LRLS^^^^^
^XTMP("A1SIZE",540058291,"AR V3.7 PRE-INSTALL")
PRYZ^^^^^

Enter RETURN to continue or '^' to exit: ^
Enter message action (in IN basket): Ignore// Xtract PackMan
```

- At the Enter message action (in IN basket): Ignore//” prompt enter **X** or **Xtract PackMan** to bring up the **Load PackMan Message** [XMPACK] option.



**NOTE:** The **Load PackMan Message** [XMPACK] option is defined in the **^DOPT** global. This global supports VA FileMan but is *not* editable from VA FileMan (i.e., it is *not* a VA FileMan compatible global.)

- From the **Load PackMan Message** [XMPACK] option, select the **Install/Check Message** option to load the **^XTMP(“XTSIZE”)** global onto the VistA system.



**NOTE:** The **Install/Check Message** option requires the user to hold the **XUPROGMODE** security key and have VA FileMan programmer privileges [**DUZ(0)=“@”**].

- The system installs the most updated PACKAGE (#9.4) file data from FORUM into a temporary global where it can be loaded and further modified to report the most current and accurate package size data from the VistA system.

### 2.2.3 Invoke Vista Package Size Analysis Manager

On the VistA system, do the following:

- Use the **VistA Package Extract Manager** [XTVS VISTA PACKAGE EXTRACT MGR] option to invoke the “**VistA Package Size Analysis Manager**” screen (aka “**VistA Package Extract & Rpt Manager**”).
- At the “Do you want to Display XTMPSIZE\*.BAK (backup files)? NO//” prompt, enter **NO** (default), as shown in [Figure 21](#):

**Figure 21: VistA Package Extract Manager Option—Sample User Prompts and Responses**

```
Select OPTION NAME: XTVS VISTA PACKAGE EXTRACT MGR
VistA Package Extract & Rpt Manager
Do you want to Display XTMPSIZE*.BAK (backup files) ? NO// <Enter>
```

In most cases, accept the **NO** default, so \*.BAK files are *not* displayed.



**NOTE:** Generally, only \*.BAK files would be displayed for selection and rewritten to another file when a Package Parameter “rollback” situation is necessary.

3. The system displays the “**VistA Package Size Analysis Manager**” screen with the list of Package Parameter files (i.e., **XTPMSIZE\*.DAT**), as shown in [Figure 22](#):

**Figure 22: “VistA Package Size Analysis Manager” Screen—ListMan Screen**

The screenshot shows a terminal window titled "Vista Package Size Manager" with the date "Apr 14, 2017@13:59:46". The title bar also includes "Page: 1 of 4" and the application name "VistA Package Size Analysis Manager" with version "Version: 1" and build "Build: 0". The main display area shows the following text:

```

XTMPSSIZE.DAT default directory: VA3$:[XUUSER]

XTMPSSIZE.DAT Package Parameter file list in VA3$:[XUUSER]:
-----
1) XTPMSIZE.DAT;1
2) XTPMSIZE_FORUM_11-17-16.DAT;1
3) XTPMSIZE_FORUM_12-15-16_1017.DAT;1
4) XTPMSIZE_FORUM_4-11-17_0939.DAT;1
5) XTPMSIZE_FOR_HPS_REPORT_12-19-16.DAT;1
6) XTPMSIZE_FOR_HPS_REPORT_4-11-17.DAT;1
7) XTPMSIZE_GTS1-12-17_0949.DAT;1
8) XTPMSIZE_GTS1-18-17_1500.DAT;1
+           Enter ?? : more actions & Help, ??? : Process Help

```

At the bottom of the screen, there is a menu bar with the following options:

EM Extract Manager	DPF Delete Package Parameter File
PMD Display/Edit Package Parameters	CHD Change Host Directory
VSR Display VistA Size Report	UNL Unlock Parameter File
RVQ Remote VistA Size Query	
Select Action:Next Screen//	

The following actions are available on the “**VistA Package Size Analysis Manager**” screen:

- [\*\*EM—Extract Manager\*\*](#) [XTVS PKG MGR EXT MNGR ACTION] (see Section [2.2.4](#))
- [\*\*PMD—Display/Edit Package Parameters\*\*](#) [XTVS PKG MGR PARAM DISP/EDIT ACTION] (see Section [2.2.8](#))
- [\*\*VSR—Display VistA Size Report\*\*](#) [XTVS PKG MGR VISTA SIZE RPT] (see Section [2.2.13](#) and [2.2.13.2](#))
- [\*\*RVQ—Remote VistA Size Query\*\*](#) [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] (see Section [2.2.14](#))
- [\*\*DPF—Delete Package Parameter File\*\*](#) [XTVS PKG MGR PARAM FILE DELETE ACTION] (see Section [2.2.3.1](#))
- [\*\*CHD—Change Host Directory\*\*](#) [XTVS SITE PARAMETERS] (see Section [2.2.15](#))
- [\*\*UNL—Unlock Parameter File\*\*](#) [XTVS PKG MGR PARAM UNLOCK ACTION] (see Section [2.2.16](#))

### 2.2.3.1 DPF—Delete Package Parameter File

On the “**VistA Package Size Analysis Manager**” screen, use the **DPF—Delete Package Parameter File [XTVS PKG MGR PARAM FILE DELETE ACTION]** action to delete from the system a selected Package Parameter file (i.e., **XTMPSIZE\*.DAT**) listed, as shown in [Figure 23](#).



**NOTE:** The **DPF—Delete Package Parameter File [XTVS PKG MGR PARAM FILE DELETE ACTION]** action is locked with the **XTVS EDITOR** security key.

**Figure 23: DPF—Delete Package Parameter File Action: Example**

```
Vista Package Size Manager   Apr 14, 2017@14:07:04      Page: 1 of 4
Vista Package Size Analysis Manager
Version: 1      Build: 0

-----
XTMPSIZE.DAT default directory: VA3$:[XUUSER]

XTMPSIZE.DAT Package Parameter file list in VA3$:[XUUSER]:
-----
1) XTMPSIZE.DAT;1
2) XTMPSIZE_FORUM_11-17-16.DAT;1
3) XTMPSIZE_FORUM_12-15-16_1017.DAT;1
4) XTMPSIZE_FORUM_4-11-17_0939.DAT;1
5) XTMPSIZE_FOR_HPS_REPORT_12-19-16.DAT;1
6) XTMPSIZE_FOR_HPS_REPORT_4-11-17.DAT;1
7) XTMPSIZE_GTS1-12-17_0949.DAT;1
8) XTMPSIZE_GTS1-18-17_1500.DAT;1
9) XTMPSIZE_GTS1-30-17_1235.DAT;1
10) XTMPSIZE_GTS10-11-16_1204.DAT;1
11) XTMPSIZE_GTS10-11-16_1208.DAT;1
12) XTMPSIZE_GTS10-28-16_1537.DAT;1
13) XTMPSIZE_GTS10-31-16_1535.DAT;1
14) XTMPSIZE_GTS11-17-16_1332.DAT;1
15) XTMPSIZE_GTS12-13-16_1102.DAT;1
16) XTMPSIZE_GTS12-15-16_1130.DAT;1
17) XTMPSIZE_GTS12-15-16_1348.DAT;1
18) XTMPSIZE_GTS12-16-16_0940.DAT;1
19) XTMPSIZE_GTS12-19-16_1005.DAT;1
20) XTMPSIZE_GTS2-10-17_1021.DAT;1
21) XTMPSIZE_GTS2-10-17_1347.DAT;1
22) XTMPSIZE_GTS2-9-17_1627.DAT;1
23) XTMPSIZE_GTS3-6-17_0922.DAT;1
24) XTMPSIZE_GTS4-10-17_0839.DAT;1
25) XTMPSIZE_GTS4-14-17_1336.DAT;1
26) XTMPSIZE_GTS4-14-17_1400.DAT;1
27) XTMPSIZE_GTS7-26-16_1054.DAT;1
28) XTMPSIZE_GTS7-26-16_1119.DAT;1
29) XTMPSIZE_GTS7-26-16_1527.DAT;1
30) XTMPSIZE_GTS7-26-16_1531.DAT;1
31) XTMPSIZE_GTS7-27-16_1016.DAT;1
32) XTMPSIZE_GTS8-11-16_0838.DAT;1
33) XTMPSIZE_GTS8-18-16_1014.DAT;1
34) XTMPSIZE_GTS8-3-16_1545.DAT;1

+      Enter ?? : more actions and Help, : ??? : Process Help
EM Extract Manager          DPF Delete Package Parameter File
PMD Display/Edit Package Parameters  CHD Change Host Directory
```

VSR Display Vista Size Report	UNL Unlock Parameter File
RVQ Remote Vista Size Query	
Select Action:Next Screen// <b>DPF &lt;Enter&gt;</b> Delete Package Parameter File	
Select the XTMPSIZE*.DAT Package Parameter file item number: <b>25</b>	
Do you want to PERMANENTLY DELETE XTMPSIZE_GTS4-14-17_1336.DAT;1? NO// <b>YES</b>	

## 2.2.4 Extract Management

To create a *new* Package Parameter file (i.e., **XTMPSIZE\*.DAT**) with the data in the unloaded **^XTMP("XTSIZE")** global, do the following:

1. From the “**VistA Package Size Analysis Manager**” screen, select the **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION] action, as shown in [Figure 24](#).



**NOTE:** The **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION] action is locked with the **XTVS EDITOR** security key.

**Figure 24: EM—Extract Manager Action: Example**

Vista Package Size Manager	Apr 14, 2017@13:59:46	Page: 1 of 4
<b>VistA Package Size Analysis Manager</b>		
Version: 1 Build: 0		
-----		
XTMPSIZE.DAT default directory: VA3\$:[XUUSER]		
XTMPSIZE.DAT Package Parameter file list in VA3\$:[XUUSER]:		
-----		
1) XTMPSIZE.DAT;1 2) XTMPSIZE_FORUM_11-17-16.DAT;1 3) XTMPSIZE_FORUM_12-15-16_1017.DAT;1 4) XTMPSIZE_FORUM_4-11-17_0939.DAT;1 5) XTMPSIZE_FOR_HPS_REPORT_12-19-16.DAT;1 6) XTMPSIZE_FOR_HPS_REPORT_4-11-17.DAT;1 7) XTMPSIZE_GTS1-12-17_0949.DAT;1 8) XTMPSIZE_GTS1-18-17_1500.DAT;1		
+ Enter ?? : more actions & Help, ??? : Process Help		
<b>EM Extract Manager</b>	DPF Delete Package Parameter File	
PMD Display/Edit Package Parameters	CHD Change Host Directory	
VSR Display Vista Size Report	UNL Unlock Parameter File	
RVQ Remote Vista Size Query		
Select Action:Next Screen// <b>EM &lt;Enter&gt;</b>	Extract Manager	

2. The “VistA Package Size Analysis Manager – Extract Manager” screen displays, as shown in [Figure 25](#):

**Figure 25: “VistA Package Size Analysis Manager – Extract Manager” Screen—ListMan Screen**

The screenshot shows a terminal window titled "Package Extract Manager". The title bar also includes the date and time ("Apr 14, 2017@13:59:51") and page information ("Page: 1 of 1"). The main display area shows a list of extracted packages. At the bottom, there is a menu with several options: CE (Extract Package Data), ED (Display Extract), ME (Email Extract Global), DEL (Delete Extract), CXP (Convert Extract to Parameter List), and REQ (Remote VistA Extract Query). The menu ends with "Select Action:Quit//".

Process ID	System	Date/Time
543597941	FOR	Apr 06, 2017

Enter ?? for more actions and Help

CE Extract Package Data      DEL Delete Extract  
ED Display Extract      CXP Convert Extract to Parameter List  
ME Email Extract Global      REQ Remote VistA Extract Query  
Select Action:Quit//

The following actions are available on the “VistA Package Size Analysis Manager – Extract Manager” screen:

- [\*\*CE—Extract Package Data\*\*](#) [XTVS PKG EXTRACT CREATE ACTION] (see Section [2.2.4.1](#))
- [\*\*ED—Display Extract\*\*](#) [XTVS PKG MGR EXT DISP ACTION] (see Section [2.2.4.2](#))
- [\*\*ME—Email Extract Global\*\*](#) [XTVS PKG EXT EMAIL ACTION] (see Section [2.2.4.3](#))
- [\*\*DEL—Delete Extract\*\*](#) [XTVS PKG EXTRACT DEL ACTION] (see Section [2.2.4.4](#))
- [\*\*CXP—Convert Extract to Parameter List\*\*](#) [XTVS PKG EXT CRT PARAM ACTION] (see Section [2.2.5](#))
- [\*\*REQ—Remote VistA Extract Query\*\*](#) [XTVS PKG EXT QUERY REMOTE ACTION] (see Section [2.2.1.2](#))

## 2.2.4.1 CE—Extract Package Data



**NOTE:** The names of packages should *not* contain double quotation marks. If a PACKAGE (#9.4) file extract includes a package name that contains double quotation marks ("), the tool *cannot* parse the name of the Package. Double quotation marks ("") need to be “cleaned up” from package names before the extract is completed.

On the “VistA Package Size Analysis Manager - Extract Manager” screen, use the **CE—Extract Package Data** [XTVS PKG EXTRACT CREATE ACTION] action to extract PACKAGE (#9.4) file data into ^XTMP(“XTVS”) global, as shown in [Figure 26](#) and [Figure 27](#):

**Figure 26: CE—Extract Package Data Action—Example: File Does Not Already Exist (1 of 2)**

```
Package Extract Manager       Jun 02, 2017@09:29:45      Page: 1 of 1
VistA Package Size Analysis Manager - Extract Manager
Version: 1      Build: 25

Extracted package ^XTMP global list
XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID      System          Date/Time
-----
3128           PLA      Apr 07, 2017 7:52:57 am

Enter ?? for more actions and Help
CE  Extract Package Data          DEL Delete Extract
ED  Display Extract             CXP Convert Extract to Parameter List
ME  Email Extract Global        REQ Remote VistA Extract Query
Select Action:Quit// CE <Enter> Extract Package Data
```

**Figure 27: CE—Extract Package Data Action—Example: File Does Not Already Exist (2 of 2)**

```
Package Extract Manager      Jun 02, 2017@09:29:51      Page: 1 of 1
Vista Package Size Analysis Manager - Extract Manager
Version: 1      Build: 25

Extracted package ^XTMP global list
XTMP SIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID      System          Date/Time
-----
3128            PLA    Apr 07, 2017 7:52:57 am
12756           PLA    Jun 02, 2017 9:29:50 am

Enter ?? for more actions and Help
CE  Extract Package Data      DEL Delete Extract
ED  Display Extract          CXP Convert Extract to Parameter List
ME  Email Extract Global     REQ Remote Vista Extract Query
Select Action:Quit//
```

If the file already exists, you will see the following system response after selecting the **CE—Extract Package Data [XTVS PKG EXTRACT CREATE ACTION]** action, as shown in [Figure 28](#):

**Figure 28: CE—Extract Package Data Action—Example: File Already Exists**

```
Package Extract Manager      Apr 14, 2017@14:03:39      Page: 1 of 1
Vista Package Size Analysis Manager - Extract Manager
Version: 1      Build: 0

Extracted package ^XTMP global list
XTMP SIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID      System          Date/Time
-----
543209920       SITE1PRO    Apr 14, 2017 1:59:54 pm
543597941       FOR        Apr 06, 2017

Enter ?? for more actions and Help
CE  Extract Package Data      DEL Delete Extract
ED  Display Extract          CXP Convert Extract to Parameter List
ME  Email Extract Global     REQ Remote Vista Extract Query
Select Action:Quit// CE <Enter> Extract Package Data

^XTMP("XTSIZE",543209920) already exists!
Do you want to delete ^XTMP("XTSIZE",543209920) and recreate it? NO// YES
```

If any of package names in the extract contain a double quote ("’), the following occurs:

1. Double quote is converted to two single quotes to allow string parsing through the name.
2. User receives a VA MailMan message, as shown in [Figure 29](#):

**Figure 29: Sample VA MailMan Message—Double Quote Edits**

```
Subj: PACKAGE EXTRACT (SITE1PRO) ; data cleanup! [#160427] 10/08/20@13:36
3 lines
From: POSTMASTER In 'IN' basket. Page 1
-----
Notice for Package Extract on SITE1PRO.
Data was cleaned up on ABC 4'' LABEL extract.
Double Quotes changed to 2 single quotes in the ABC 4'' LABEL Package name.

Enter message action (in IN basket): Ignore//
```

#### 2.2.4.2 ED—Display Extract

On the “**VistA Package Size Analysis Manager - Extract Manager**” screen, use the **ED—Display Extract** [XTVS PKG MGR EXT DISP ACTION] action to enter the \$J Process number for the ^XTMP(“XTVS”) global and display its data, as shown in [Figure 30](#):

**Figure 30: ED—Display Extract Action: Example**

```
Package Extract Manager      Apr 14, 2017@14:03:55      Page: 1 of 1
VistA Package Size Analysis Manager - Extract Manager
Version: 1      Build: 0

Extracted package ^XTMP global list
XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID      System          Date/Time
-----
543209920      SITE1PRO      Apr 14, 2017 2:03:55 pm
543597941      FOR            Apr 06, 2017

Enter ?? for more actions and Help
CE Extract Package Data      DEL Delete Extract
ED Display Extract          CXP Convert Extract to Parameter List
ME Email Extract Global     REQ Remote VistA Extract Query
Select Action:Quit// ED <Enter> Display Extract

Enter the Extract Process ID ($JOB) number: 543209920
```

This opens the “**VistA Package Size Analysis Manager - Display Extract**” screen and presents a report of each package with captioned parameter data, as shown in [Figure 31](#). Use this report to review the extracted PACKAGE (#9.4) file data to determine what parameter changes and corrections need to be made.

The “VistA Package Size Analysis Manager - Display Extract” screen has the following action:

[\*\*DE—Delete Displayed Extract\*\* \[XTVS PKG EXT DISP DEL ACTION\] \(see Section 2.2.4.2.1\)](#)

#### 2.2.4.2.1 DE—Delete Displayed Extract

On the “VistA Package Size Analysis Manager - Display Extract” screen, use the **DE—Delete Displayed Extract** [XTVS PKG EXT DISP DEL ACTION] action to delete the ^XTMP(“XTVS”) global extract displayed, as shown in [Figure 31](#):

**Figure 31: DE—Delete Displayed Extract Action: Example**

```
Package File Extract Display Apr 14, 2017@14:04:30          Page: 1 of 100
VistA Package Size Analysis Manager - Display Extract
Version: 1      Build: 0
System: SITE1PRO PID:543209920     Date: Apr 14, 2017 2:03:55 pm

-----
Package data in ^XTMP extract

ACCOUNTS RECEIVABLE
Prefix: PRCA
*Low File#:      *High File#:
File List:
Added Prefixes: PRY|RC|
Excluded Prefixes:
File Ranges:
Parent Package:

ADP MODULE
+      Enter ?? for more actions and Help
DE Delete Displayed Extract
Select Action:Next Screen// DE <Enter> Delete Displayed Extract
Do you want to delete ^XTMP("XTSIZE",543209920) ? NO// YES
```

### 2.2.4.3 ME—Email Extract Global

On the “VistA Package Size Analysis Manager - Extract Manager” screen, use the **ME—Email Extract Global** [XTVS PKG EXT EMAIL ACTION] action to enter the \$JOB Process ID number of the extract to mail and the recipients to receive it, as shown in [Figure 32](#).



**NOTE:** This serves as an alternate to the **Send Package File Extract via Packman** [XTVS PKG MGR EXT PACKAGE MSG] option (see Section [2.2.1](#)).

**Figure 32: ME—Email Extract Global Action: Example**

```
Package Extract Manager      Apr 14, 2017@14:04:59      Page: 1 of 1
VistA Package Size Analysis Manager - Extract Manager
Version: 1      Build: 0

Extracted package ^XTMP global list
XTMP SIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID          System          Date/Time
-----
543597941          FOR            Apr 06, 2017

Enter ?? for more actions and Help
CE  Extract Package Data          DEL Delete Extract
ED  Display Extract             CXP Convert Extract to Parameter List
ME  Email Extract Global         REQ Remote VistA Extract Query
Select Action:Quit// ME <Enter> Email Extract Global

The message can take some time to be sent.

Enter the Extract Process ID ($JOB) number: 543597941
Send mail to: XUUSER,ONE// <Enter> XUUSER,ONE
Select basket to send to: IN// <Enter>
And Send to: <Enter>

Created by XUUSER,ONE at REDACTED.VA.GOV on Friday, 04/14/17
at 14:05.....
^XTMP("XTSIZE",543597941) Emailed via PackMan. [MSG #:78619]

Press Return to continue:
```

#### 2.2.4.4 DEL—Delete Extract

On the “VistA Package Size Analysis Manager - Extract Manager” screen, use the **DEL—Delete Extract** [XTVS PKG EXTRACT DEL ACTION] action to enter the \$JOB Process ID number of the ^XTMP(“XTSIZE”) global extract to be deleted, as shown in [Figure 33](#):

**Figure 33: DEL—Delete Extract Action: Example**

```
Package Extract Manager      Apr 14, 2017@14:06:14      Page: 1 of 1
VistA Package Size Analysis Manager - Extract Manager
Version: 1      Build: 0

Extracted package ^XTMP global list
XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID          System          Date/Time
-----
543597941          FOR            Apr 06, 2017

Enter ?? for more actions and Help
CE  Extract Package Data          DEL Delete Extract
ED  Display Extract              CXP Convert Extract to Parameter List
ME  Email Extract Global         REQ Remote VistA Extract Query
Select Action:Quit// DEL <Enter> Delete Extract

Enter the Extract Process ID ($JOB) number: 543597941
Do you want to delete ^XTMP("XTSIZE",543597941)? NO// YES
```

#### 2.2.5 Convert Extract to Parameter List

To create a *new* Package Parameter file (i.e., **XTMPSIZE\*.DAT**) from the data in a ^XTMP(“XTSIZE”) global, do the following:

1. From the “VistA Package Size Analysis Manager – Extract Manager” screen, select the **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION] action, as shown in [Figure 34](#).



**NOTE:** The **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION] action is locked with the **XTVS EDITOR** security key.

2. At the “Enter the Extract Process ID (\$JOB) number:” prompt, enter the \$JOB Process ID of the extract, as shown in [Figure 34](#).

**Figure 34: CXP—Convert Extract to Parameter List Action: Example**

```
Package Extract Manager      Apr 14, 2017@13:59:55      Page: 1 of 1
VistA Package Size Analysis Manager - Extract Manager
Version: 1      Build: 0

Extracted package ^XTMP global list
XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

Process ID          System          Date/Time
-----
543209920          SITE1PRO      Apr 14, 2017 1:59:54 pm
543597941          FOR           Apr 06, 2017

Enter ?? for more actions and Help
CE  Extract Package Data          DEL Delete Extract
ED  Display Extract              CXP Convert Extract to Parameter List
ME  Email Extract Global         REQ Remote VistA Extract Query
Select Action:Quit// CXP <Enter> Convert Extract to Parameter List

Enter the Extract Process ID ($JOB) number: 999999999
```

3. The “VistA Package Size Analysis Manager – Package Parameters” screen displays (see [Figure 35](#)). This interface allows users to review the Package Parameters defined from the PACKAGE (#9.4) file extract.

**Figure 35: “VistA Package Size Analysis Manager – Package Parameters” Screen—ListMan Screen and Report**

Parameter File List	Apr 14, 2017@14:00:27	Page:	1 of 45
<b>VistA Package Size Analysis Manager – Package Parameters</b>			
System: FOR	Version: 1 Build: 0	Extract PID:543597941	Date: Apr 06, 2017
<hr/>			
ACCOUNTS RECEIVABLE^PRCA^412^439^PRY RC  ^412 430 431 432 433 434 435 436 437 438 439 ^412-439.9999 ^			
AR (ACCOUNTS RECEIVABLE) ^RC^330^349^^330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 ^330-349.9999 ^ACCOUNTS RECEIVABLE			
MCCR NATIONAL DATABASE^PRQ^465^469^^PRQS  ^465 466 467 468 469 ^465-469.9999 ^ADMINISTRATIVE MODULES			
ADVERSE REACTION TRACK (GMA) ^GMA^^^^^			
ADVERSE REACTION TRACKING^GMRA^120^120^GMA  ^^120   ^120-120.9999 ^ADVERSE REACTION TRACK (GMA)			
<hr/>			
+ Enter ?? : more actions & Help, ??? : Process Help			
RPL Display Parameter List	WPF Write Parameter List to File	DPC Display Parameter Corrections	EPC Email Corrections Rpt & Parameters
Select Action:Next Screen//			

The following actions are available on the “VistA Package Size Analysis Manager – Package Parameters” or “VistA Package Size Analysis Manager – Package Parameter Corrections” screens:

- [\*\*RPL—Display Parameter List\*\*](#) [XTVS PKG EXT REDISP PARAM ACTION] (see Section [2.2.5.1](#))
- [\*\*DPC—Display Parameter Corrections\*\*](#) [XTVS PKG EXT DISP CORRECTIONS ACTION] (see Section [2.2.5.2](#))
- [\*\*WPF—Write Parameter List to File\*\*](#) [XTVS PKG EXT PARAM WRT ACTION] (see Section [2.2.6](#))
- [\*\*EPC—Email Corrections Rpt & Parameters\*\*](#) [XTVS PKG MGR NEW PARAM MAIL ACTION] (see Section [2.2.5.3](#))

These actions allow users to review the parameters that would be created from the selected Package Extract and write that extract to a Package Parameter file (i.e., [XTMPSSIZE\\*.DAT](#)).

**Figure 36: “VistA Package Size Analysis Manager - Package Parameter Corrections” Screen—ListMan Screen and Report**

```

Parameter File List          Apr 14, 2017@14:01:32      Page: 1 of 74
VistA Package Size Analysis Manager - Package Parameter Corrections
Version: 1      Build: 0
System: FOR      Extract PID:543597941      Date: Apr 06, 2017

-----
ACCOUNTS RECEIVABLE Package entry file number notes:
412-439.9999 [Decimal on Range End extended by nine(s) ]

ADVERSE REACTION TRACK (GMA) Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]

ADVERSE REACTION TRACKING Package entry file number notes:
120-120.9999 [Decimal on Range End extended by nine(s) ]

AIRBORNE HAZARD & OPEN BURN PIT REGISTRY Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]
+ Enter ?? : more actions & Help, ??? : Process Help
RPL Display Parameter List      WPF Write Parameter List to File
DPC Display Parameter Corrections    EPC Email Corrections Rpt & Parameters
Select Action:Next Screen//
```



**NOTE:** The screen header displays either of the following utilities:

- **VistA Package Size Analysis Manager - Package Parameters**
- **VistA Package Size Analysis Manager - Package Parameter Corrections**

The [RPL—Display Parameter List](#) [XTVS PKG EXT REDISP PARAM ACTION] (see Section [2.2.5.1](#)) and [DPC—Display Parameter Corrections](#) [XTVS PKG EXT DISP CORRECTIONS ACTION] (see Section [2.2.5.2](#)) actions are a toggle between what header is displayed.

### 2.2.5.1 RPL—Display Parameter List

On the “VistA Package Size Analysis Manager - Package Parameters” or “VistA Package Size Analysis Manager - Package Parameter Corrections” screens, use the **RPL—Display Parameter List** [XTVS PKG EXT REDISP PARAM ACTION] action (see [Figure 37](#)) after users review corrections with the **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION] action (see Section [2.2.5.2](#)). It redisplays the package parameters as defined by the selected package extract file.

**Figure 37: RPL—Display Parameter List Action: Example**

The screenshot shows a terminal window titled "Parameter File List" with the date "Apr 14, 2017@14:01:32" and page "1 of 74". The title bar reads "VistA Package Size Analysis Manager - Package Parameter Corrections" with version "1" and build "0". Below the title, it says "System: FOR Extract PID:543597941 Date: Apr 06, 2017". The main text area contains several sections of parameter definitions:

- ACCOUNTS RECEIVABLE Package entry file number notes:  
412-439.9999 [Decimal on Range End extended by nine(s)]
- ADVERSE REACTION TRACK (GMA) Package entry file number notes:  
No File List [No File Multiple Entries defined]  
Ranges Undefined [No File Ranges or High/Low Fields]
- ADVERSE REACTION TRACKING Package entry file number notes:  
120-120.9999 [Decimal on Range End extended by nine(s)]
- AIRBORNE HAZARD & OPEN BURN PIT REGISTRY Package entry file number notes:  
No File List [No File Multiple Entries defined]  
Ranges Undefined [No File Ranges or High/Low Fields]

At the bottom, there is a menu bar with the following options:

- RPL Display Parameter List
- WPF Write Parameter List to File
- DPC Display Parameter Corrections
- EPC Email Corrections Rpt & Parameters
- Select Action:Next Screen// **RPL <Enter>** Display Parameter List

The **RPL—Display Parameter List** [XTVS PKG EXT REDISP PARAM ACTION] action displays the “VistA Package Size Analysis Manager - Package Parameters” screen and report.

### 2.2.5.2 DPC—Display Parameter Corrections

On the “VistA Package Size Analysis Manager - Package Parameters” or “VistA Package Size Analysis Manager - Package Parameter Corrections” screens, use the **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION] action to review the changes that the **CXP—Convert Extract to Parameter List** [XTVS PKG EXT CRT PARAM ACTION] action made to the data written in the Package Parameters list when it was created from the raw PACKAGE (#9.4) file extract, as shown in [Figure 38](#).

Creation of Package Parameters from the PACKAGE (#9.4) file extract extends file range numbers out to **four** (4) decimal places (nines). For example, **1.5** becomes **1.5999**. It also reports omissions and data integrity problems in the Package Parameter file (i.e., [XTMPsize\\*.DAT](#)).

**Figure 38: DPC—Display Parameter Corrections Action: Example**

The screenshot shows a terminal window with the following text:

```
Parameter File List          Apr 14, 2017@14:00:27      Page: 1 of 45
VistA Package Size Analysis Manager - Package Parameters
Version: 1      Build: 0
System: FOR      Extract PID:543597941      Date: Apr 06, 2017

ACCOUNTS RECEIVABLE^PRCA^412^439^PRY|RC|^^412|430|431|432|433|434|435|436|437|438|439|^412-439.9999|^

AR (ACCOUNTS RECEIVABLE) ^RC^330^349^^330|331|332|333|334|335|336|337|338|339|340|341|342|343|344|345|346|347|348|349|^330-349.9999|^ACCOUNTS RECEIVABLE

MCCR NATIONAL DATABASE^PRQ^465^469^^PRQS|^465|466|467|468|469|^465-469.9999|^ADM
INISTRATIVE MODULES

ADVERSE REACTION TRACK (GMA) ^GMA^^^^^^

ADVERSE REACTION TRACKING^GMRA^120^120^GMA|^120|^120-120.9999|^ADVERSE REACTION
TRACK (GMA)

+      Enter ?? : more actions & Help, ??? : Process Help
RPL Display Parameter List      WPF Write Parameter List to File
DPC Display Parameter Corrections      EPC Email Corrections Rpt & Parameters
Select Action:Next Screen// DPC <Enter>      Display Parameter Corrections
```

The **DPC—Display Parameter Corrections** [XTVS PKG EXT DISP CORRECTIONS ACTION] action displays the “**VistA Package Size Analysis Manager - Package Parameter Corrections**” screen and report, as shown in [Figure 36](#).

### 2.2.5.3 EPC—Email Corrections Rpt & Parameters

On the “**VistA Package Size Analysis Manager - Package Parameters**” or “**VistA Package Size Analysis Manager - Package Parameter Corrections**” screens, use the **EPC—Email Corrections Rpt & Parameters** [XTVS PKG MGR NEW PARAM MAIL ACTION] action to enter email recipients and send the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) optionally in an attachment file or in text with the corrections report in a mail message. Use this information as a starting point for correcting package information in the Parameters file.



**NOTE:** You can forward a message with an attachment file to a MailMan recipient. They will be able to read the Corrections report; however, the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) attachment will be encoded as an attachment. There are no MailMan tools available to the end-user to extract attachments. Thus, the message needs to be forwarded to a Microsoft® Outlook recipient, so the attachment can also be read. You have the option of creating the message with the Package Parameter file as text along with the Corrections report. This message form will allow a MailMan recipient to read the Package Parameter file text in MailMan.

**Figure 39: EPC—Email Corrections Rpt & Parameters Action: Attachment Example**

```
Parameter File List          Apr 14, 2017@14:01          Page: 1 of 74
VistA Package Size Analysis Manager - Package Parameter Corrections
Version: 1      Build: 0
System: FOR      Extract PID:543597941      Date: Apr 06, 2017

ACCOUNTS RECEIVABLE Package entry file number notes:
412-439.9999 [Decimal on Range End extended by nine(s) ]

ADVERSE REACTION TRACK (GMA) Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]

ADVERSE REACTION TRACKING Package entry file number notes:
120-120.9999 [Decimal on Range End extended by nine(s) ]

AIRBORNE HAZARD & OPEN BURN PIT REGISTRY Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]
+     Enter ?? : more actions & Help, ??? : Process Help
RPL Display Parameter List          WPF Write Parameter List to File
DPC Display Parameter Corrections   EPC Email Corrections Rpt & Parameters
Select Action:Next Screen// EPC <Enter> Email Corrections Rpt & Parameters

The message can take some time to be sent.

Send mail to: XUUSER,ONE// <Enter> XUUSER,ONE
Select basket to send to: IN// <Enter>
And Send to: ONE.XUUSER@VA.GOV
Looking in Internet Suffix file...    US GOVERNMENT via REDACTED.VA.GOV
And Send to: <Enter>

NOTE: Attachments sent to VA MailMan addresses will be unreadable.
Send the parameters in the message if sending to a VA MailMan address.

Send the VistA Pkg Parameter File as a message or a text file attachment: A//<Enter> ttachment

[Creating attachments... /]
```

**Figure 40: EPC—Email Corrections Rpt & Parameters Action: Message Example**

```
Parameter File List          Apr 14, 2017@14:01          Page: 1 of 74
VistA Package Size Analysis Manager - Package Parameter Corrections
Version: 1      Build: 0
System: FOR      Extract PID:543597941      Date: Apr 06, 2017

ACCOUNTS RECEIVABLE Package entry file number notes:
412-439.9999 [Decimal on Range End extended by nine(s) ]

ADVERSE REACTION TRACK (GMA) Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]

ADVERSE REACTION TRACKING Package entry file number notes:
120-120.9999 [Decimal on Range End extended by nine(s) ]

AIRBORNE HAZARD & OPEN BURN PIT REGISTRY Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]
+ Enter ?? : more actions & Help, ??? : Process Help
RPL Display Parameter List          WPF Write Parameter List to File
DPC Display Parameter Corrections  EPC Email Corrections Rpt & Parameters
Select Action:Next Screen// EPC <Enter> Email Corrections Rpt & Parameters

The message can take some time to be sent.

Send mail to: XUUSER,ONE// <Enter> XUUSER,ONE
Select basket to send to: IN// <Enter>
And Send to: ONE.XUUSER@VA.GOV
Looking in Internet Suffix file...    US GOVERNMENT via REDACTED.VA.GOV
And Send to: <Enter>

NOTE: Attachments sent to VA MailMan addresses will be unreadable.
Send the parameters in the message if sending to a VA MailMan address.

Send the VistA Pkg Parameter File as a message or a text file attachment: A// ???
Enter 'M' to send the report in a message or 'A' to send in a file
attached to a message.

Select one of the following:

M      Message
A      Attachment

Send the VistA Pkg Parameter File as a message or a text file attachment: A// M
<Enter> essage

[Creating attachments... /
```

## 2.2.6 Create Parameter File from Package File Extract

The “VistA Package Size Analysis Manager – Package Parameter Corrections” and “VistA Package Size Analysis Manager – Package Parameters” screens display data integrity problems/corrections or the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) created from the PACKAGE (#9.4) file extract; respectively.

To create a Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)), do the following:

1. On the “VistA Package Size Analysis Manager - Package Parameters” or “VistA Package Size Analysis Manager - Package Parameter Corrections” screens, invoke the **WPF—Write Parameter List to File [XTVS PKG EXT PARAM WRT ACTION]** action, which creates the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)), as shown in [Figure 41](#).



**NOTE:** The **WPF—Write Parameter List to File [XTVS PKG EXT PARAM WRT ACTION]** action is locked with the **XTVS EDITOR** security key.

The Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) can be edited and used for package size reporting with other tool functions.

2. The system adds the indicated Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) to the VistA Package Size default directory for further editing with the VistA Package Analysis Manager.



**REF:** For more information on setting the VistA Package Size default directory, see Section [2.2.15](#), “[Change Host File Directory](#).”

3. Once the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) is created, the user can review and edit the package parameters defined in the file by returning to the “VistA Package Size Analysis Manager” screen:
  - a. Enter **Quit** on the “VistA Package Size Analysis Manager - Package Parameters” screen.
  - b. Enter **Quit** again on the “VistA Package Size Analysis Manager - Extract Manager” screen.

**Figure 41: WPF—Write Parameter List to File Action: Example**

```
Parameter File List          Apr 14, 2017@14:00:38      Page: 1 of 74
VistA Package Size Analysis Manager - Package Parameter Corrections
Version: 1      Build: 0
System: FOR      Extract PID:543597941      Date: Apr 06, 2017

ACCOUNTS RECEIVABLE Package entry file number notes:
412-439.9999 [Decimal on Range End extended by nine(s)]

ADVERSE REACTION TRACK (GMA) Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]

ADVERSE REACTION TRACKING Package entry file number notes:
120-120.9999 [Decimal on Range End extended by nine(s)]

AIRBORNE HAZARD & OPEN BURN PIT REGISTRY Package entry file number notes:
No File List [No File Multiple Entries defined]
Ranges Undefined [No File Ranges or High/Low Fields]
+ Enter ?? : more actions and Help, ??? : Process Help
RPL Display Parameter List           WPF Write Parameter List to File
DPC Display Parameter Corrections   EPC Email Corrections Rpt & Parameters
Select Action:Next Screen// WPF <Enter> Write Parameter List to File

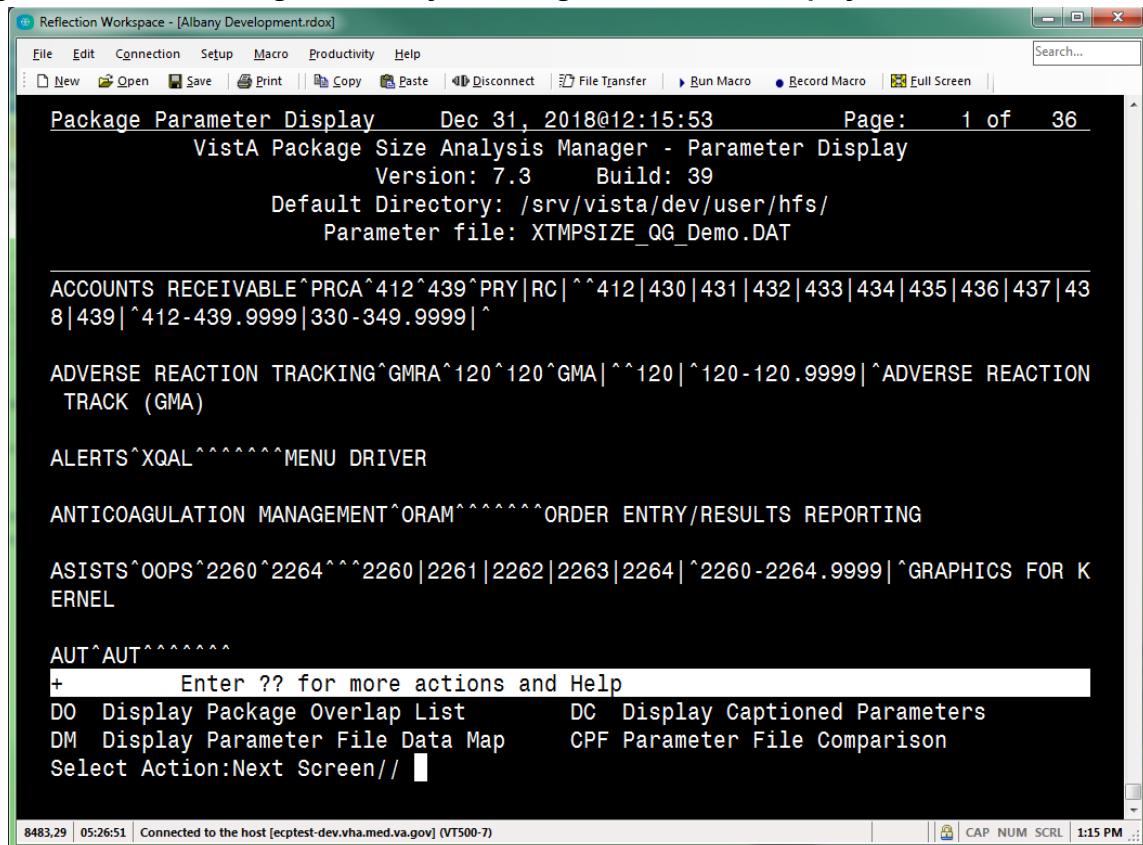
Parameter file: XTMPSIZE_GTS4-14-17_1400.DAT, will be created.

Press Return to continue: <Enter>
```

## 2.2.7 Return to VistA Package Size Analysis Manager & Review/Edit Parameter File

Figure 42 shows the “VistA Package Size Analysis Manager – Parameter Display” screen display for the newly created (or updated) Package Parameter files (i.e., [XTMPSIZE\\*.DAT](#)):

**Figure 42: “VistA Package Size Analysis Manager – Parameter Display” Screen—ListMan Screen**



In the example in Figure 42, the demonstration file is **XTMPSIZE\_QG\_Demo.DAT** (#6 in the list).



**NOTE:** From the operating system (OS), you can rename the new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) to something that reflects this is the *new* FORUM Package Parameters extract file.

The following actions are available on the “**VistA Package Size Analysis Manager**” screen:

- **EM—Extract Manager** [XTVS PKG MGR EXT MNGR ACTION] (see Section [2.2.4](#))
- **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION] (see Section [2.2.8](#))
- **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT] (see Section [2.2.13](#) and [2.2.13.2](#))
- **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] (see Section [2.2.14](#))
- **DPF—Delete Package Parameter File** [XTVS PKG MGR PARAM FILE DELETE ACTION] (see Section [2.2.3.1](#))
- **CHD—Change Host Directory** [XTVS SITE PARAMETERS] (see Section [2.2.15](#))
- **UNL—Unlock Parameter File** [XTVS PKG MGR PARAM UNLOCK ACTION] (see Section [2.2.16](#))

## 2.2.8 Display Package Parameter List

To review and edit the new Package Parameter file (e.g., **XTMPSIZE\_QG\_Demo.DAT**), do the following:

1. From the “**VistA Package Size Analysis Manager**” screen, invoke the **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION] action.



**NOTE:** The **PMD—Display/Edit Package Parameters** [XTVS PKG MGR PARAM DISP/EDIT ACTION] action is locked with the **XTVS EDITOR** security key.

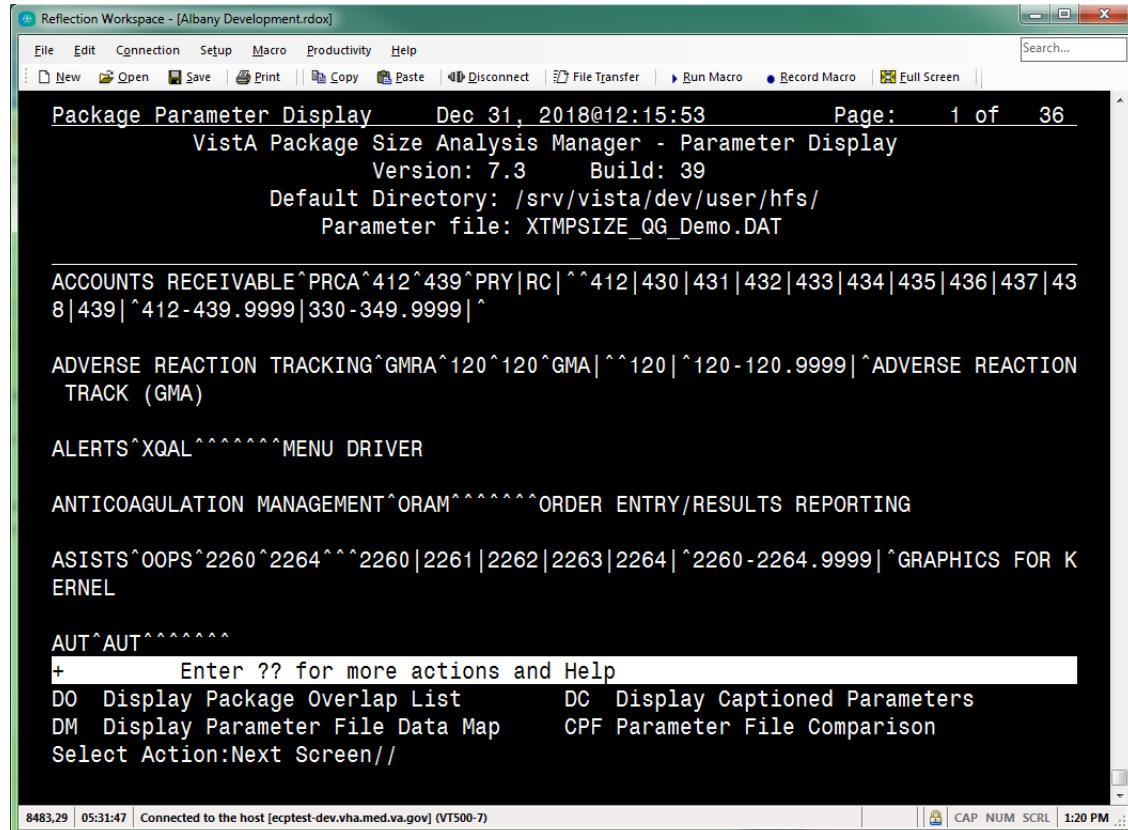
2. At the “Select the XTMPSIZE\*.DAT Package Parameter file item number.” prompt, select the newly added **XTMPSIZE\*.DAT** file, as shown in [Figure 43](#):

**Figure 43: PMD—Display/Edit Package Parameters Action: Example**

The screenshot shows a terminal window titled "Vista Package Size Manager" with the date "Apr 14, 2017@14:07:52". The title bar also displays "VistA Package Size Analysis Manager" and "Version: 1 Build: 0". The window content lists package parameter files numbered 23 to 35. Item 35 is highlighted in yellow and labeled "35 XTMPSIZE\_QG Demo.DAT;1". Below the list is a command prompt: "+ Enter ?? : more actions & Help, ??? : Process Help". A menu bar at the bottom includes options like "EM Extract Manager", "PMD Display/Edit Package Parameters" (which is highlighted in yellow), "VSR Display Vista Size Report", "RVQ Remote Vista Size Query", "Select Action:Next Screen//", and "PMD <Enter> Display/Edit Package Parameters". The message "Select the XTMPSIZE\*.DAT Package Parameter file item number: 35" is displayed at the bottom.

3. This displays the “VistA Package Size Analysis Manager – Parameter Display” screen, as shown in [Figure 44](#):

**Figure 44: “VistA Package Size Analysis Manager – Parameter Display” Screen—ListMan Screen**



The “VistA Package Size Analysis Manager – Parameter Display” screen includes the following actions:

- **[DO—Display Package Overlap List](#)** [XTVS PKG MGR PARAM ERR DISP ACTION] (see Section [2.2.9](#))
- **[DM—Display Parameter File Data Map](#)** [XTVS PKG MGR PARAM DATA MAP HELP ACTION] (see Section [2.2.8.1](#))
- **[DC—Display Captioned Parameters](#)** [XTVS PKG MGR PARAM DISP CAPTION ACTION] (see Section [2.2.10](#))
- **[CPF—Parameter File Comparison](#)** [XTVS PKG MGR PARAM COMPARE ACTION] (see Section [2.2.9](#))

Use these actions to review the parameters defined from the extracted package data. This allows users to report potential problems with the parameters defined in the selected **XTMPSIZE\*.DAT** file.

### 2.2.8.1 DM—Display Parameter File Data Map

On the “VistA Package Size Analysis Manager - Parameter Display” screen, use the **DM—Display Parameter File Data Map** [XTVS PKG MGR PARAM DATA MAP HELP ACTION] action to display a data map of the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) list data, as shown in [Figure 45](#):

**Figure 45: DM—Display Parameter File Data Map Action: Example**

```
Package Parameter Display      Apr 14, 2017@14:14:30          Page: 1 of 45
VistA Package Size Analysis Manager - Parameter Display
Version: 1      Build: 0
Default Directory: VA3$:[XUUSER]
Parameter file: XTMPSIZE_OLD1.DAT;1

ACCOUNTS RECEIVABLE^PRCA^412^439^PRY|RC|^^412|430|431|432|433|434|435|436|437|438|439|^412-439.9999|^

AR (ACCOUNTS RECEIVABLE) ^RC^330^349^^330|331|332|333|334|335|336|337|338|339|340|341|342|343|344|345|346|347|348|349|^330-349.9999|^ACCOUNTS RECEIVABLE

MCCR NATIONAL DATABASE^PRQ^465^469^^PRQS|^465|466|467|468|469|^465-469.9999|^ADM
INISTRATIVE MODULES

ADP PLANNING^PRA^490^499^^490|491|492|493|494|495|496|497|498|499|^490-499.9999|^

ADP PLANNING STATION^PRAS^^^^^^ADP PLANNING

+      Enter ?? for more actions and Help
DO  Display Package Overlap List      DC  Display Captioned Parameters
DM  Display Parameter File Data Map    CPF  Parameter File Comparison
Select Action:Next Screen// DM <Enter>  Display Parameter File Data Map

Parameter List data map from Package file:
-----
^ pce 1 : Package Name
           [Source: NAME (#.01)]
^ pce 2 : Primary Prefix
           [Source: PREFIX (#1)]
^ pce 3 : *Lowest File #
           [Source: *LOWEST FILE NUMBER (#10.6)]
^ pce 4 : *Highest File #
           [Source: *HIGHEST FILE NUMBER (#11)]
^ pce 5 : Pipe character () delimited list of Additional Prefixes
           [Source: ADDITIONAL PREFIXES multiple (#14)]
^ pce 6 : Pipe character () delimited list of Excepted Prefixes
           [Source: EXCLUDED NAME SPACE multiple (#919)]
^ pce 7 : Pipe character () delimited list of File entries
           [Source: FILE NUMBER multiple (#15001)]
^ pce 8 : Pipe character () delimited list of File Range entries
           [Source: LOW-HIGH RANGE multiple (#15001.1)]
^ pce 9 : Parent Package
           [Source: PARENT PACKAGE field (#15003)]

Press Return to continue:
```

## 2.2.9 Analyze Package Parameter Data for Correctness

There are several tools to assist users in analysis of the Package Parameter data files. Review of the Package Parameter data could begin with checking the list of packages with intersecting prefixes (namespaces) and file ranges.

To analyze the package parameter data for correctness, do the following:

1. From the “VistA Package Size Analysis Manager – Parameter Display” screen, select the **DO—Display Package Overlap List [XTVS PKG MGR PARAM ERR DISP ACTION]** action, as shown in [Figure 46](#):

**Figure 46: DO—Display Package Overlap List Action: Example**

The screenshot shows the "VistA Package Size Analysis Manager - Parameter Display" interface. The title bar includes the date and time (Apr 14, 2017@14:09:40), page number (1 of 45), and the application name. Below the title, it shows the version (1), build (24), default directory (C:\TEMP), and the parameter file (XTMPSIZE\_QG\_Demo.DAT). The main window displays a list of package names and their component overlaps. At the bottom, a menu bar lists actions: DO (highlighted in blue), DM, Select Action:, Next Screen//, and Enter. The "DO" option is underlined and highlighted in yellow, indicating it is the selected action.

```
Package Parameter Display     Apr 14, 2017@14:09:40      Page: 1 of 45
VistA Package Size Analysis Manager - Parameter Display
Version: 1      Build: 24
Default Directory: C:\TEMP
Parameter file: XTMPSIZE_QG_Demo.DAT

ACCOUNTS
RECEIVABLE^PRCA^412^439^PRY|RC| ^412|430|431|432|433|434|435|436|437|438|439
| ^412-439.9999|330-349.9999^

ADVERSE REACTION TRACKING^GMRA^120^120^GMA| ^^120 | ^120-120.9999|^ADVERSE
REACTION TRACK (GMA)

ALERTS^XQAL^^^^^^^MENU DRIVER

ANTICOAGULATION MANAGEMENT^ORAM^^^^^ORDER ENTRY/RESULTS REPORTING

ASISTS^OOPS^2260^2264^^^2260|2261|2262|2263|2264| ^2260-2264.9999|^GRAPHICS
FOR KERNEL

AUT^AUT^^^^^
+       Enter ?? for more actions and Help
DO  Display Package Overlap List      DC  Display Captioned Parameters
DM  Display Parameter File Data Map    CPF Parameter File Comparison
Select Action:Next Screen//  DO <Enter>  Display Package Overlap List
```

2. This displays the “VistA Package Size Analysis Manager – Prefix/File Overlap” screen, which supports review of package component overlap of the Package Parameter file: (e.g., **XTMPSIZE\_QG\_Demo.DAT**), as shown in [Figure 47](#). Use the information provided to change package parameters, so they better reflect the package definitions.



**NOTE:** The overlap report varies for different **XTMPSIZE\*.DAT** files.

**Figure 47: “VistA Package Size Analysis Manager – Prefix/File Overlap” Screen—ListMan Screen and Report**

The screenshot shows a terminal window with the following details:

Package Parameter Overlap Oct 02, 2020@13:35:40 Page: 1 of 66  
VistA Package Size Analysis Manager - Prefix/File Overlap  
Version: 7.3 Build: 104  
Default Directory: /srv/vista/dev/user/hfs/  
Parameter file: XTMPSIZE\_QG\_Demo.DAT

The report text states:

The Package Prefixes are overlapped by the subsequent package(s) listed.  
The Packages Files overlapping the reported package are listed and identified by comparing assigned files for the reported package to the overlap package.  
File assignments are used by the VistA Size Report to count files in a package.  
The Parameter File indicates file assignments by 'File Ranges', '\*Lowest File#' to '\*Highest File#', and 'File Numbers' (List). Only one of these data elements is used to count files in a package and package file overlap as follows:  
1) File Ranges ; 2) \*Low/\*High file numbers ; 3) File Numbers (List)  
The data element used is indicated in the File Overlap portion of this report.

ACCOUNTS RECEIVABLE [Primary Prefix: PRCA]  
Parent: None indicated  
File Range: 412-439.9999, assignment intersects the following packages...  
+ Enter ?? : more actions & Help, ??? : Prefix Help  
PL Display Prefix Overlap List RL [Re] Display Package Overlap List  
FL Display File Overlap List EL Email Displayed Report  
Select Action:Next Screen//

5249,29 | 05:29:18 | Connected to the host [ecptest-dev.vha.med.va....] || CAP NUM SCRL | 2:36 PM |

The “Prefix/File Overlap” report displays prefix (namespace) and file intersections common to multiple packages (e.g., Package A and Package B both reference File #1000 and Prefix ABC). Use the information provided to change package parameters, so they better reflect the package definitions.

To report the components for a package, the VistA Package Size Reporting tool uses the **XTMPSIZE\*.DAT** file to determine which components belong to a package. If a file range or a prefix (namespace) belongs to multiple packages, those components are counted for both packages.



**NOTE:** To create a report with better integrity, users with package knowledge should review the overlap report to determine if the package prefix and file intersections need to be removed.

The “VistA Package Size Analysis Manager – Prefix/File Overlap” screen includes the following actions:

- **PL—Display Prefix Overlap List** [XTVS PKG MGR PREFIX OVERLAP ACTION] (see Section [2.2.9.1](#))
- **FL—Display File Overlap List** [XTVS PKG MGR FILE OVERLAP ACTION] (see Section [2.2.9.2](#))
- **RL—[Re] Display Package Overlap List** [XTVS PKG MGR PARAM OVRLP REDISP ACTION] (see Section [2.2.9.3](#))
- **EL—Email Displayed Report** [XTVS PKG MGR EMAIL OVRLAP RPT ACTION] (see [Figure 48](#))

For example: Use the **EL—Email Displayed Report** [XTVS PKG MGR EMAIL OVRLAP RPT ACTION] action to send the overlap report to package SMEs for review, as shown in [Figure 48](#):

**Figure 48: EL—Email Displayed Report Action: Example**

```
Package Parameter Overlap      Apr 14, 2017@14:10:54      Page: 1 of 79
VistA Package Size Analysis Manager - Prefix/File Overlap
Version: 1      Build: 0
Default Directory: C:\TEMP
Parameter file: XTMPSIZE_QG_Demo.DAT

The Package Prefixes are overlapped by the subsequent package(s) listed.
The Packages Files overlapping the reported package are listed and
identified by comparing assigned files for the reported package to the
overlap package.
The VistA Size Report tool uses File assignments to count files in a
package.
The Parameter File defines file assignments in 'File Ranges', '*Lowest
File#' to '*Highest File#, and 'File Numbers' (List). Only one of these data
elements is used to count files in a package and package file overlap as
follows:
1) File Ranges ; 2) *Low/*High file numbers ; 3) File Numbers (List)
The data element used is indicated in the File Overlap portion of this
report

ACCOUNTS RECEIVABLE [Primary Prefix: PRCA]
Parent: None indicated
File Range: 412-439.9999, assignment intersects the following packages...
+ Enter ?? for more actions and Help
PL  Display Prefix Overlap List      RL  [Re] Display Package Overlap List
FL  Display File Overlap List      EL  Email Displayed Report
Select Action:Next Screen// EL <Enter> Email Displayed Report

The message can take some time to be sent.

Send mail to: XUUSER,ONE// ONE.XUUSER@VA.GOV
Looking in Internet Suffix file...      US GOVERNMENT via REDACTED.VA.GOV
And Send to: <Enter>

Prefix/File Overlap Emailed.  [MSG #:78620]

Press Return to continue:
```

The report can also be used with the **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION] action on the “**VistA Package Size Analysis Manager – Parameter Display**” screen to change package definitions (see Section [2.2.10](#)).

3. Return to the “**VistA Package Size Analysis Manager – Parameter Display**” screen.

4. From the “**VistA Package Size Analysis Manager – Parameter Display**” screen, invoke the **CPF—Parameter File Comparison** [XTVS PKG MGR PARAM COMPARE ACTION] action, as shown in [Figure 49](#):

**Figure 49: CPF—Parameter File Comparison Action: Example**

```

Package Parameter Display      Apr 14, 2017@14:20:46      Page: 1 of 36
VistA Package Size Analysis Manager - Parameter Display
Version: 1      Build: 24
Default Directory: C:\TEMP
Parameter file: XTMPSIZE_QG_Demo.DAT

-----
ACCOUNTS
RECEIVABLE^PRCA^412^439^PRY|RC| ^412|430|431|432|433|434|435|436|437|438|439
| ^412-439.9999|330-349.9999^

ADVERSE REACTION TRACKING^GMRA^120^120^GMA| ^120 | ^120-120.9999|^ADVERSE
REACTION TRACK (GMA)

ALERTS^XQAL^^^^^^^MENU DRIVER

ANTICOAGULATION MANAGEMENT^ORAM^^^^^ORDER ENTRY/RESULTS REPORTING

ASISTS^OOPS^2260^2264^^^2260|2261|2262|2263|2264|^2260-2264.9999|^GRAPHICS
FOR KERNEL

AUT^AUT^^^^^
+           Enter ?? for more actions and Help
DO  Display Package Overlap List      DC  Display Captioned Parameters
DM  Display Parameter File Data Map   CPF Parameter File Comparison
Select Action:Next Screen// CPF <Enter> Parameter File Comparison
1: XTMPSIZE.BAK;1
2: XTMPSIZE.DAT;1
3: XTMPSIZE_FORUM_11-17-16.BAK;1
4: XTMPSIZE_FORUM_11-17-16.DAT;1
5: XTMPSIZE_FORUM_12-15-16_1017.DAT;1
6: XTMPSIZE_FORUM_4-11-17_0939.DAT;1
7: XTMPSIZE_FOR_HPS_REPORT_12-19-16.DAT;1
8: XTMPSIZE_FOR_HPS_REPORT_4-11-17.DAT;1
9: XTMPSIZE_GTS1-12-17_0949.DAT;1
.
.
.
Enter RETURN to continue or '^' to exit: ^
Select File: 2 <Enter> XTMPSIZE.DAT;1

```

- a. Ideally, select the most current Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) to compare to the current file. [Figure 50](#) displays the Package Parameter file (e.g., [XTMPSIZE\\_QG\\_Demo.DAT](#)).

- b. This displays the “**VistA Package Size Analysis Manager - Parameter Compare**” screen displaying the PACKAGE (#9.4) file changes that have occurred on FORUM since the last Package Extract occurred, as shown in [Figure 50](#):

**Figure 50: “VistA Package Size Analysis Manager - Parameter Compare” Screen—ListMan Screen and Report**

The screenshot shows the "VistA Package Size Analysis Manager - Parameter Compare" screen. At the top, it displays the date and time (Oct 02, 2020@13:40:01), page number (Page: 1 of 492), and the title. Below this, it shows the version information (Version: 7.3 Build: 104) and the default directory (Default Directory: /srv/vista/dev/user/hfs/). It also specifies the selected file (XTMPSIZE\_QG\_Demo.DAT) and the comparison file (XTMPSIZE\_GTS\_TEST.DAT).

**CHANGED PACKAGES**

Package: ACCOUNTS RECEIVABLE

File Ranges

- CPR Parameter List: 412-439.9999|
- 330-349.9999 ...added in SEL file
- SEL Parameter List: 412-439.9999|330-349.9999|

Package: AUTOMATED LAB INSTRUMENTS

SEL Low File #: {none} CPR Low File #: 62.4  
SEL High File #: {none} CPR High File #: 62.4

Excepted Prefixes

+ Enter ?? for more actions and Help

ECR Email Comparison Report

Select Action:Next Screen//

At the bottom, there is a status bar with the following information: 5208,29 | 05:32:09 | Connected to the host [ecptest-dev.vha.med.va....] | CAP NUM SCRL | 2:39 PM | icons for copy, paste, and search.

The “**VistA Package Size Analysis Manager - Parameter Compare**” screen includes the following action:

[\*\*ECR—Email Comparison Report\*\*](#) [XTVS PKG MGR PARAM COMPR MAIL ACTION]—Use this action to send you and others an email copy of the comparison report (see Section [2.2.9.4](#)).

- c. The “Parameter Compare” report ([Figure 50](#)) allows users to quickly identify the differences between the current Package Parameter file (i.e., [\*\*XTMPSIZE\\*.DAT\*\*](#)) and a selected Package Parameter file (i.e., [\*\*XTMPSIZE\\*.DAT\*\*](#)).

Review the Changed, Added, and Deleted packages:

- **Changed and Deleted Packages**—You can confirm changed or deleted packages with the package developers; however, it is expected the edits or deletions were needed on FORUM and should continue in the updated Package Parameters **XTMPFILE** for Health Product Support. You can anticipate it will be necessary to apply these changes to the updated **XTMPSIZE\*.DAT** file.
  - **Added Packages**—Determine if added packages are released and need to be reported with the VistA Package Size reporting tool. Since they have been added, it is expected a development effort was started on the packages since the last FORUM Package extract. Confirm with Health Product Support; however, it is expected that only released packages need to be added to the updated **XTMPSIZE\*.DAT** file.
5. After comparisons and appropriate action has been determined, exit from the “**VistA Package Size Analysis Manager - Parameter Compare**” screen, and exit the “**VistA Package Size Analysis Manager - Parameter Display**” interface. This returns you to the “**VistA Package Size Analysis Manager**” screen.



**NOTE:** It is a good idea to retain the most recent Package Parameter files (i.e., [\*\*XTMPSIZE\\*.DAT\*\*](#)) for historical reference. The **CPF—Parameter File Comparison** [XTVS PKG MGR PARAM COMPARE ACTION] action can be used to compare Package Parameter files. Comparing the a new Package Parameter file (i.e., [\*\*XTMPSIZE\\*.DAT\*\*](#)) (from FORUM) to an older Package Parameter file can show the changes applied to package parameters during a period of time.

**REF:** To review the defined process, see the “[Update Existing Package Parameter File](#)” section.

### 2.2.9.1 PL—Display Prefix Overlap List

On the “VistA Package Size Analysis Manager - Prefix/File Overlap,” “VistA Package Size Analysis Manager - Prefix Overlap,” or “VistA Package Size Analysis Manager - File Overlap” screens, use the **PL—Display Prefix Overlap List** [XTVS PKG MGR PREFIX OVERLAP ACTION] action to sort out and display only the packages that have prefix (namespace) overlaps (intersections), as shown in [Figure 51](#):

**Figure 51: PL—Display Prefix Overlap List Action: Example**

```
Package Parameter Overlap      Apr 14, 2017@14:09:57      Page: 1 of 77
VistA Package Size Analysis Manager - Prefix/File Overlap
Version: 1      Build: 0
Default Directory: VA3$:[XUUSER]
Parameter file: XTMPSIZE_FORUM_4-11-17_0939.DAT;1

The Package Prefixes are overlapped by the subsequent package(s) listed.
The Packages Files overlapping the reported package are listed and identified
by comparing assigned files for the reported package to the overlap package.
The VistA Size Report tool uses File assignments to count files in a package.
The Parameter File defines file assignments in 'File Ranges', '*Lowest File#'
to '*Highest File#, and 'File Numbers' (List). Only one of these data elements
is used to count files in a package and package file overlap as follows:
1) File Ranges ; 2) *Low/*High file numbers ; 3) File Numbers (List)
The data element used is indicated in the File Overlap portion of this report.

ACCOUNTS RECEIVABLE [Primary Prefix: PRCA]
Parent: None indicated
File Range: 412-439.9999, assignment intersects the following packages...
+      Enter ?? for more actions and Help
PL  Display Prefix Overlap List      RL  [Re] Display Package Overlap List
FL  Display File Overlap List      EL  Email Displayed Report
Select Action:Next Screen// PL <Enter> Display Prefix Overlap List
```

The system displays the “VistA Package Size Analysis Manager – Prefix Overlap” screen.

### 2.2.9.2 FL—Display File Overlap List

On the “VistA Package Size Analysis Manager – Prefix/File Overlap” or “VistA Package Size Analysis Manager - Prefix Overlap” screens, use the **FL—Display File Overlap List** [XTVS PKG MGR FILE OVERLAP ACTION] action to sort out and display only those packages that have file overlaps (intersections), as shown in [Figure 52](#):

**Figure 52: FL—Display File Overlap List Action: Example**

```
Package Parameter Overlap      Dec 07, 2018@10:03:22      Page: 1 of 23
VistA Package Size Analysis Manager - Prefix Overlap
Version: 7.3      Build: 39
Default Directory: /srv/vista/<scd>/user/hfs/
Parameter file: XTMPSIZE_QG_Demo.DAT

The Package Prefixes are overlapped by the subsequent package(s) listed:

CAPACITY MANAGEMENT [Primary Prefix: KMP]
Parent: None indicated
Prefix: KMP ; intersects the following packages...
. CAPACITY MANAGEMENT TOOLS [KMPD]
. CAPACITY MANAGEMENT - RUM [KMPR]
. SAGG PROJECT [KMPS]

CLINICAL CASE REGISTRIES [Primary Prefix: ROR]
Parent: None indicated
Prefix: IMR ; intersects the following packages...
+ Enter ?? for more actions and Help
PL  Display Prefix Overlap List      RL  [Re] Display Package Overlap List
FL  Display File Overlap List      EL  Email Displayed Report
Select Action:Next Screen// FL <Enter> Display File Overlap List
```

The system displays the “VistA Package Size Analysis Manager – File Overlap” screen (see [Figure 53](#)).

### 2.2.9.3 RL—[Re] Display Package Overlap List

On the “VistA Package Size Analysis Manager - Prefix/File Overlap,” “VistA Package Size Analysis Manager - Prefix Overlap,” or “VistA Package Size Analysis Manager - File Overlap” screens, use the **RL—[Re] Display Package Overlap List** [XTVS PKG MGR PARAM OVRLP REDISP ACTION] action to display both prefix (namespace) and file overlaps for packages that intersect, as shown in [Figure 53](#):

**Figure 53: RL—[Re] Display Package Overlap List Action: Example**

```
Package Parameter Overlap      DEC 07, 2018@10:10:43      Page: 1 of 40
VistA Package Size Analysis Manager - File Overlap
Version: 7.3      Build: 39
Default Directory: /srv/vista/<scd>/user/hfs/
Parameter file: XTMPSIZE_GG_Demo.DAT;1

The Packages Files overlapping the reported package are listed and identified by comparing assigned files for the reported package to the overlap package. File assignments are used by the VistA Size Report to count files in a package. The Parameter File indicates file assignments by 'File Ranges', '*Lowest File#' to '*Highest File#, and 'File Numbers' (List). Only one of these data elements is used to count files in a package and package file overlap as follows:
1) File Ranges ; 2) *Low/*High file numbers ; 3) File Numbers (List)
The data element used is indicated in the File Overlap portion of this report.

ACCOUNTS RECEIVABLE [Primary Prefix: PRCA]
Parent: None indicated
File Range: 412-439.9999, assignment intersects the following packages...
. IFCAP [File Range: 410-449.9999]

+       Enter ?? for more actions and Help
PL  Display Prefix Overlap List      RL  [Re] Display Package Overlap List
FL  Display File Overlap List      EL  Email Displayed Report
Select Action:Next Screen// RL <Enter> [Re] Display Package Overlap List
```

The system displays the “VistA Package Size Analysis Manager – Prefix/File Overlap” screen.

## 2.2.9.4 ECR—Email Comparison Report

On the “VistA Package Size Analysis Manager - Parameter Compare” screen, use the **ECR—Email Comparison Report [XTVS PKG MGR PARAM COMPR MAIL ACTION]** action to email a comparison report using VistA MailMan, as shown in [Figure 54](#):

**Figure 54: ECR—Email Comparison Report Action: Example**

```
Package Parameter Compare      Apr 14, 2017@14:22:56      Page: 1 of 75
VistA Package Size Analysis Manager - Parameter Compare
    Version: 1      Build: 0
    Default Directory: VA3$:[XUUSER]
    Current [New] file: XTMPSIZE_GTS4-14-17_1418.DAT;1
    Comparison [Old] file: XTMPSIZE_FOR_HPS_REPORT_4-11-17.DAT;1

CHANGED PACKAGES

Package: CAPACITY MANAGEMENT
New Low File #: 8970      Old Low File #: {none}
New High File #: 8974      Old High File #: {none}
Files
    Added entire list in New file:
    8970|8971|8972|8973|8974|
File Ranges
    Old List: 8969-8974.9999|
    8969-8974.9999 ...deleted in New file
    8970-8974.9999 ...added in New file
+      Enter ?? for more actions and Help
ECR Email Comparison Report
Select Action:Next Screen// ECR <Enter> Email Comparison Report

The message can take some time to be sent.

Send mail to: XUUSER,ONE// <Enter> XUUSER,ONE
Select basket to send to: IN// <Enter>
And Send to: <Enter>

Parameter Compare Emailed.  [MSG #:78621]

Press Return to continue:
```

## 2.2.10 Edit Package Parameter Data (As Needed)

Once a Package Parameter file (i.e., **XTMPSIZE\*.DAT**) has been reviewed to determine what package intersections need correction and further package definition necessary, the user can make edits.

To edit Package Parameter file data, do the following:

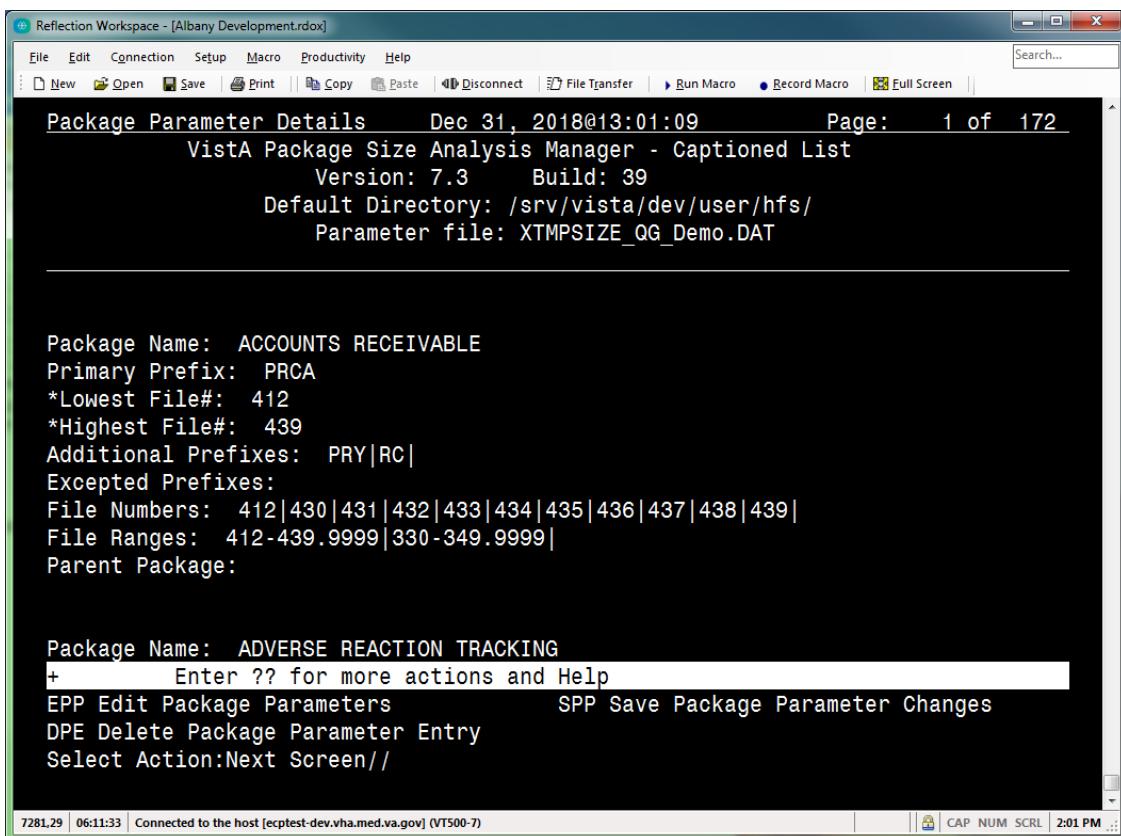
1. From the “**VistA Package Size Analysis Manager – Parameter Display**” screen, select the **DC—Display Captioned Parameters** [XTVS PKG MGR PARAM DISP CAPTION ACTION] action, as shown in [Figure 55](#):

**Figure 55: DC—Display Captioned Parameters Action: Example**

The screenshot shows a terminal window titled "VistA Package Size Analysis Manager - Parameter Display". The title bar also displays the date and time "Apr 14, 2017@14:14:34" and page information "Page: 1 of 45". Below the title bar, it says "Version: 1 Build: 24" and "Default Directory: C:\TEMP". The parameter file listed is "Parameter file: XTMPSIZE\_QG\_Demo.DAT". The main display area shows various system components and their paths, such as "ACCOUNTS RECEIVABLE^PRCA^412^439^PRY|RC|^412|430|431|432|433|434|435|436|437|438|439|412-439.9999|330-349.9999^", "ADVERSE REACTION TRACKING^GMRA^120^120^GMA|^120|^120-120.9999|^ADVERSE REACTION TRACK (GMA)", "ALERTS^XQAL^^^^^^^MENU DRIVER", "ANTICOAGULATION MANAGEMENT^ORAM^^^^^ORDER ENTRY/RESULTS REPORTING", "ASISTS^OOPS^2260^2264^^2260|2261|2262|2263|2264|^2260-2264.9999|^GRAPHICS FOR KERNEL", and "AUT^AUT^^^^^". At the bottom, there is a menu with options: "DO Display Package Overlap List", "DC Display Captioned Parameters" (which is highlighted in yellow), "DM Display Parameter File Data Map", "CPF Parameter File Comparison", "Select Action:Next Screen//", and "Display Captioned Parameters". The "DC <Enter>" option is also highlighted in yellow.

2. This opens the “**VistA Package Size Analysis Manager – Captioned List**” screen. It displays the list of packages (alphabetically) with captioned data elements, as shown in [Figure 56](#). It also supports Package Parameter editing actions.

**Figure 56: “VistA Package Size Analysis Manager – Captioned List” Screen—ListMan Screen**



The following actions are available on the “VistA Package Size Analysis Manager – Captioned List” screen:

- **EPP—Edit Package Parameters** [XTVS PKG MGR EDIT PACKAGE PARM ACTION]—Use this action to apply any changes made to a Package definition on FORUM to the definition of the package in the (*new*) Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)). This includes adding any new packages created on FORUM, since the last extract, that need to be included in an updated VistA Package Size report (see Section [2.2.11.1](#)).
- **DPE—Delete Package Parameter Entry** [XTVS PKG MGR DEL PACKAGE PARM ACTION]—Use this action to delete any “Added Package” identified as *not* part of the set of packages Health Product Support needs to size (see Section [2.2.11.2](#)).
- **SPP—Save Package Parameter Changes** [XTVS PKG MGR SAVE PACKAGE PARM ACTION]—Use this action and save the file in a *new* name (see Section [2.2.12](#)).



**NOTE:** From the operating system (OS), you can rename the new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) to something that reflects this is the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) used

to generate an updated VistA size report for Health Product Support (HPS).

These actions allow redefinition of packages and updating a Package Parameter file (i.e., **XTMPSIZE\*.DAT**) that can be used for creating the VistA Package Size Report.

## 2.2.11 Edit Package Parameters Process

The “VistA Package Size Analysis Manager – Captioned List” screen includes the following actions (see [Figure 56](#)):

- **EPP—Edit Package Parameters** [XTVS PKG MGR EDIT PACKAGE PARM ACTION] (see Section [2.2.11.1](#))
- **DPE—Delete Package Parameter Entry** [XTVS PKG MGR DEL PACKAGE PARM ACTION] (see Section [2.2.11.2](#))
- **SPP—Save Package Parameter Changes** [XTVS PKG MGR SAVE PACKAGE PARM ACTION] (see Section [2.2.12](#))

If the displayed Package Parameter files (i.e., **XTMPSIZE\*.DAT**) have been edited but *not* saved, “{EDITED}” is displayed next to the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) name on the “VistA Package Size Analysis Manager – Captioned List” screen heading. For example:

**Figure 57: Package Parameter Files Edited but Not Yet Saved: Example**

Parameter file: XTMPSIZE\_QG\_Demo.DAT {EDITED}

Editing Package Parameters to correctly reflect the set of components included in the package requires review of the package definition by a package expert. The actions available on the “VistA Package Size Analysis Manager – Prefix/File Overlap” screen can aid analysis of the package definitions.

For example, the definition of the (sample) Accounts Receivable package ([Figure 56](#)) is shown in [Figure 58](#):

**Figure 58: Accounts Receivable Captioned Parameter List: Example**

```
Package Name: ACCOUNTS RECEIVABLE
Primary Prefix: PRCA
*Lowest File#: 412
*Highest File#: 439
Additional Prefixes: PRY|RC|
Excepted Prefixes:
File Numbers: 412|430|431|432|433|434|435|436|437|438|439|
File Ranges: 412-439.9999|330-349.9999|
Parent Package:
```

The “**VistA Package Size Analysis Manager – Prefix/File Overlap**” screen report indicates no prefix (namespace) overlap, but it does note file range overlap as shown in [Figure 59](#):

**Figure 59: Accounts Receivable Overlap Report Item: Example**

```
ACCOUNTS RECEIVABLE [Primary Prefix: PRCA]
Parent: None indicated
File range, 412-439.9999, overlaps with the following packages...
. IFCAP [410-449.9999]
. EQUIPMENT/TURN-IN REQUEST [413-413.9] (Parent: IFCAP)
```

Notice that Accounts Receivable has file range overlaps with IFCAP and EQUIPMENT/TURN-IN REQUEST.

IFCAP and EQUIPMENT/TURN-IN REQUEST package definitions are defined in [Figure 60](#):

**Figure 60: EQUIPMENT/TURN-IN REQUEST & IFCAP Captioned Parameter List: Examples**

```
Package Name: EQUIPMENT / TURN-IN REQUEST
Primary Prefix: PRCN
*Lowest File#: 413
*Highest File#: 413.9
Additional Prefixes:
Excepted Prefixes:
File Numbers: 413|
File Ranges: 413-413.9|
Parent Package: IFCAP

Package Name: IFCAP
Primary Prefix: PRC
*Lowest File#: 410
*Highest File#: 449
Additional Prefixes: PRX|
Excepted Prefixes: PRCA|PRCN|
File Numbers: 410|411|412|413|414|415|416|417|418|419|420|421|422|423|424|425|4
26|427|428|429|430|431|432|433|434|435|436|437|438|439|440|441|442|443|444|445|4
46|447|448|449|
File Ranges: 410-449.9999|
Parent Package:
```

A Subject Matter Expert (SME) would need to look at these packages to determine if the File Numbers defined for each package should overlap. If the intersecting set of File Numbers remains, the Package Size Report counts the overlapping files under reports for both Packages. The package definition can be edited with the **EPP—Edit Package Parameters** [XTVS PKG MGR EDIT PACKAGE PARM ACTION] action (see Section [2.2.11.1](#)).

An SME can also determine if any of the packages can be deleted. The **DPE—Delete Package Parameter Entry** [XTVS PKG MGR DEL PACKAGE PARM ACTION] action (see Section [2.2.11.2](#)) allows deletion of a selected package from the Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)).

[Figure 61](#) is an example of a report for the PATIENT (#2) file from the “**VistA Package Size Analysis Manager – Prefix/File Overlap**” screen. It shows a package definition that overlaps both files and prefixes (namespaces) with another package.

**Figure 61: PATIENT FILE Accounts Receivable Overlap Report Item: Example**

```
PATIENT FILE [Primary Prefix: DPT]
Parent: REGISTRATION
Prefix: DPT ; intersects the following packages...
. REGISTRATION [DPT]

File range, 2-2.9999, overlaps with the following packages...
. KERNEL WITHOUT MAILMAN [0-41]
. REGISTRATION [2-2.9999]
```

Consider the prefix (namespace) overlap between the PATIENT FILE and REGISTRATION packages. The PATIENT FILE and REGISTRATION package parameters are defined as shown in [Figure 62](#):

**Figure 62: PATIENT FILE and REGISTRATION Captioned Parameter List: Examples**

```
Package Name: PATIENT FILE
Primary Prefix: DPT
*Lowest File#: 2
*Highest File#: 2
Additional Prefixes:
Excepted Prefixes:
File Numbers: 2|
File Ranges: 2-2.9999|
Parent Package: REGISTRATION

Package Name: REGISTRATION
Primary Prefix: DG
*Lowest File#: 8
*Highest File#: 409
Additional Prefixes: DGQE|DPT|VA|VIC|DGPT|
Excepted Prefixes: DGYA|DGJ|DGBT|VALM|
File Numbers:
2|8|10|11|12|13|21|22|23|24|25|30|32|33|35|37|38|39|45|46|47|48|391|392|393|394|398|400|401|402|405|406|408|
File Ranges: 8-48.9999|389-391.9999|398-408.9999|393-394.9999|2-2.9999|392-392.9999|
Parent Package:
```

Again, an SME would need to review these packages to determine if both should be reported on the VistA Size Report. If so, further decisions would be needed to reconcile the prefix (namespace) and file intersections between the two packages so that the package size report includes the correct number of components for each package.

### 2.2.11.1 EPP—Edit Package Parameters

On the “VistA Package Size Analysis Manager - Captioned List” screen, use the **EPP—Edit Package Parameters** [XTVS PKG MGR EDIT PACKAGE PARM ACTION] action to enter a package to add/edit. The user is then prompted to edit the parameters required for Package Size Reporting, as shown in [Figure 63](#):

**Figure 63: EPP—Edit Package Parameters Action: Example**

```
Package Parameter Details      Apr 14, 2017@14:14:43      Page: 1 of 218
VistA Package Size Analysis Manager - Captioned List
Version: 1      Build: 0
Default Directory: VA3$:[XUUSER]
Parameter file: XTMPSIZE_OLD1.DAT;1

-----
Package Name: ACCOUNTS RECEIVABLE
Primary Prefix: PRCA
*Lowest File#: 412
*Highest File#: 439
Additional Prefixes: PRY|RC|
Excepted Prefixes:
File Numbers: 412|430|431|432|433|434|435|436|437|438|439|
File Ranges: 412-439.9999|
Parent Package:

Package Name: ADP PLANNING
+           Enter ?? for more actions and Help
EPP Edit Package Parameters          SPP Save Package Parameter Changes
DPE Delete Package Parameter Entry
Select Action:Next Screen// EPP <Enter> Edit Package Parameters
Select Package: ACCOUNTS RECE
ADD ENTRY? NO// <Enter>
1: ACCOUNTS RECEIVABLE
Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE
Primary Prefix: PRCA// <Enter>
*Lowest File#: 412// <Enter>
*Highest File#: 439// <Enter>

Additional Prefixes:
PRY|RC|ZRC

Enter Additional Prefix: ZRC
Prefix: ZRC// <Enter>
ADD ENTRY? NO// YES

Additional Prefixes:
PRY|RC|ZRC

Enter Additional Prefix: <Enter>

Excepted Prefixes:
{no data list}

Enter Excepted Prefix: ZRCX
```

Prefix: ZRCX// <Enter>  
ADD ENTRY? NO// YES

Excepted Prefixes:  
ZRCX|

Enter Excepted Prefix: <Enter>

File Numbers:  
412|430|431|432|433|434|435|436|437|438|439|

Enter File Number: 438  
File Number: 438// <Enter>

File Numbers:  
412|430|431|432|433|434|435|436|437|438|439|

Enter File Number: 438  
File Number: 438// @  
DELETE ENTRY? NO// YES

File Numbers:  
412|430|431|432|433|434|435|436|437|439|

Enter File Number: 438  
File Number: 438// <Enter>  
ADD ENTRY? NO// YES

File Numbers:  
412|430|431|432|433|434|435|436|437|439|438|

Enter File Number: <Enter>

File Ranges:  
412-439.9999|

Enter File Number Range: 1-2.9999  
File Number Range: 1-2.9999// <Enter>  
ADD ENTRY? NO// YES

File Ranges:  
412-439.9999|1-2.9999|

Enter File Number Range: <Enter>

Parent Package: ACCOUNTS REC  
1: ACCOUNTS RECEIVABLE  
Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE

### 2.2.11.2 DPE—Delete Package Parameter Entry

On the “VistA Package Size Analysis Manager - Captioned List” screen, use the **DPE—Delete Package Parameter Entry** [XTVS PKG MGR DEL PACKAGE PARM ACTION] action to enter a package to delete. The user is reminded that deletion removes the package from the size report created with the Package Parameter file (i.e., **XTMPSIZE\*.DAT**) being edited, as shown in [Figure 64](#):

**Figure 64: DPE—Delete Package Parameter Entry Action: Example**

```
Package Parameter Details      Apr 14, 2017@14:15:52      Page: 1 of 218
VistA Package Size Analysis Manager - Captioned List
Version: 1      Build: 0
Default Directory: VA3$:[XUUSER]
Parameter file: XTMPSIZE_OLD1.DAT;1 {EDITED}

-----
Package Name: ACCOUNTS RECEIVABLE
Primary Prefix: PRCA
*Lowest File#: 412
*Highest File#: 439
Additional Prefixes: PRY|RC|ZRC|
Excepted Prefixes: ZRCX|
File Numbers: 412|430|431|432|433|434|435|436|437|439|438|
File Ranges: 412-439.9999|1-2.9999|
Parent Package: ACCOUNTS RECEIVABLE

-----
Package Name: ADP PLANNING
+      Enter ?? for more actions and Help
EPP Edit Package Parameters      SPP Save Package Parameter Changes
DPE Delete Package Parameter Entry
Select Action:Next Screen// DPE <Enter> Delete Package Parameter Entry
Select Package: ACCOUNTS
1: ACCOUNTS RECEIVABLE
Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE
You have chosen to delete the ACCOUNTS RECEIVABLE entry
from the XTMPSIZE_OLD1.DAT;1 Package Parameter file.

[If deleted, ACCOUNTS RECEIVABLE will not be included
in the VistA Size Report!]

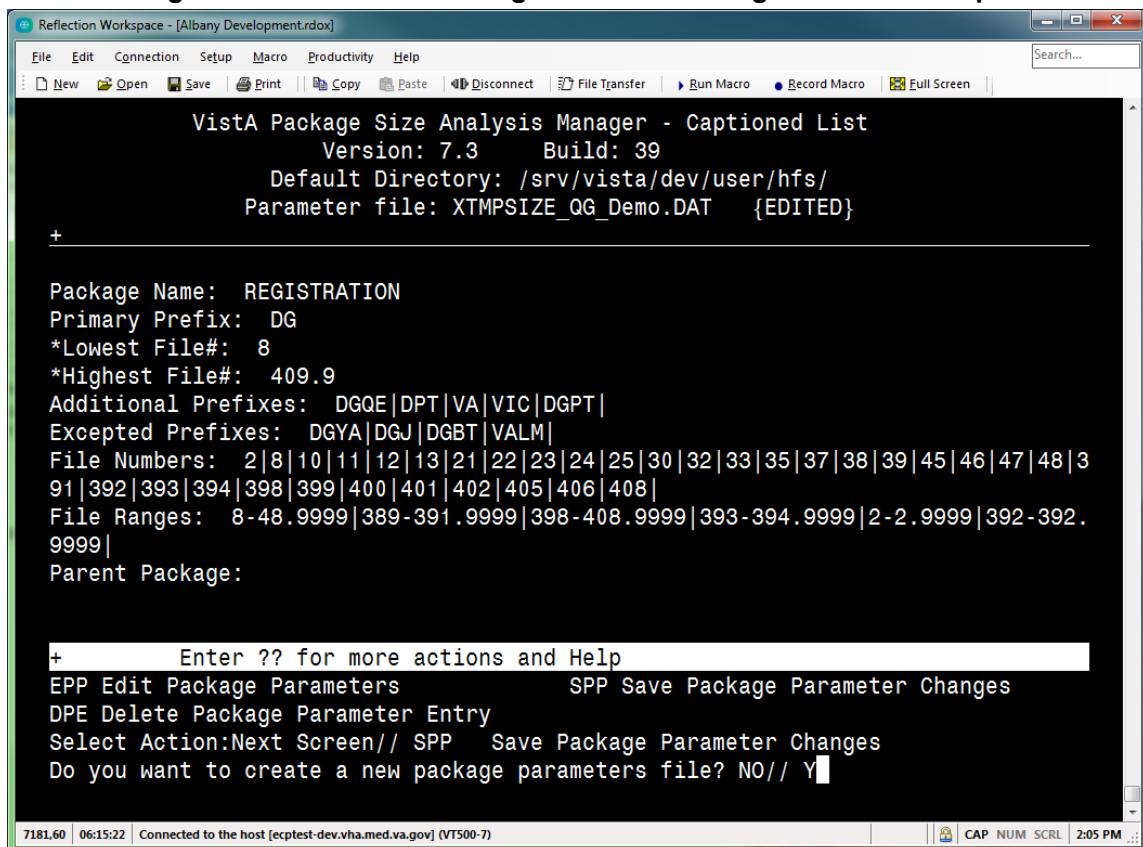
Are you SURE you want to delete the parameters for this package? NO// YES
```

## 2.2.12 Save Edited Package Parameter List

To save the edited Package Parameter list, do the following:

1. From the “**VistA Package Size Analysis Manager – Captioned List**” screen, select the **SPP—Save Package Parameter Changes** [XTVS PKG MGR SAVE PACKAGE PARM ACTION] action. It allows users to overwrite the displayed Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) or create a new Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)).

**Figure 65: SPP—Save Package Parameter Changes Action: Example**



2. If you choose to save the edited parameters to a new **XTMPSIZE\*.DAT** file, the system creates a new file with the following file name format:

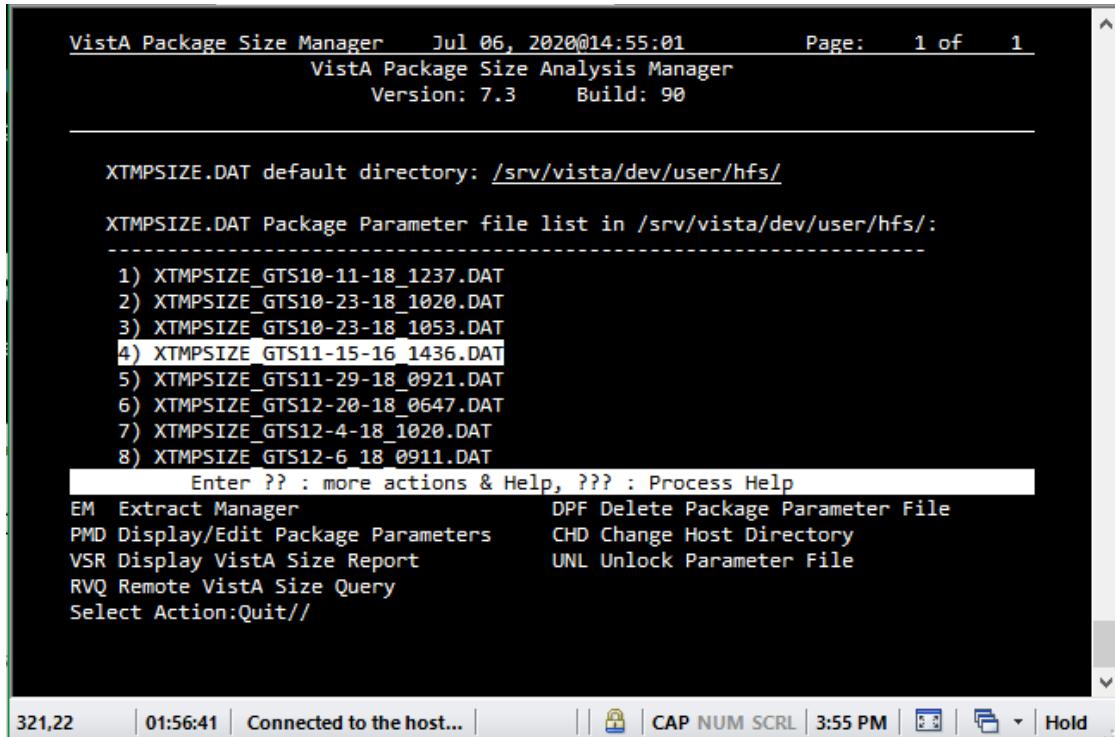
**XTMPSIZE\_<user initials><mm-dd-yy\_hhmm>.DAT**

The name of the new file is listed on the “**VistA Package Size Analysis Manager – Captioned List**” screen. For example:

Parameter file: **XTMPSIZE\_GTS11-15-16\_1436.DAT**

3. The edited (and saved) Package Parameter file (i.e., **XTMPSIZE\*.DAT**) is then displayed on the “**VistA Package Size Analysis Manager**” screen, as shown in [Figure 66](#):

**Figure 66: “VistA Package Size Analysis Manager” Screen: Updated**



## 2.2.13 Create VistA Package Size Report

You can create a VistA Package Size Report for the following:

- [Single Package](#)
- [All Packages](#)



**REF:** For a list of Package Size Report errors, see the “[Package Size Report Errors](#)” section.

### **2.2.13.1 Single Package**

To create a VistA Package Size Report for a single package, do the following:

1. From the “**VistA Package Size Analysis Manager**” screen, select the **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT] action, as shown in [Figure 67](#).
2. At the “Select the **XTMPSIZE\*.DAT** Package Parameter file item number:” prompt, enter the number corresponding to the desired Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) from a list of .DAT file, as shown in [Figure 67](#).
3. At the “Do you want to display Sizing Information for ALL VistA Packages? NO//” prompt, enter **NO** (default), as shown in [Figure 67](#).

4. At the “Select Package:” prompt, enter a package name, as shown in [Figure 67](#).

**Figure 67: VSR—Display VistA Size Report Action: Example: Single Package**

```
Vista Package Size Manager      Apr 14, 2017@14:24:07      Page:      2 of      4
VistA Package Size Analysis Manager
Version: 1      Build: 13

-----
10: XTMPSIZE_GTS1-18-17_1500.DAT;1
11: XTMPSIZE_GTS1-30-17_1235.DAT;1
12: XTMPSIZE_GTS10-11-16_1204.DAT;1
13: XTMPSIZE_GTS10-11-16_1208.DAT;1
14: XTMPSIZE_GTS10-28-16_1537.DAT;1
15: XTMPSIZE_GTS10-31-16_1535.DAT;1
16: XTMPSIZE_GTS11-17-16_1332.DAT;1
17: XTMPSIZE_GTS12-13-16_1102.BAK;1
18: XTMPSIZE_GTS12-13-16_1102.DAT;1
19: XTMPSIZE_GTS12-15-16_1130.BAK;1
20: XTMPSIZE_QG Demo.DAT

+          Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager                  DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display VistA Size Report       UNL Unlock Parameter File
RVQ Remote VistA Size Query
Select Action:Next Screen// VSR <Enter> Display VistA Size Report

Select the XTMPSIZE*.DAT Package Parameter file item number: 20

VistA Package Sizing Report

Do you want to display Sizing Information for ALL VistA Packages? NO//  

<Enter>
Select Package: ACCOUNTS RECEIV
1: ACCOUNTS RECEIVABLE
Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE



After selecting a package, the system begins gathering the statistics for the selected package. If the selected package is not defined on VistA, the message in Figure 66 is displayed to the user.


...counting...
...files...
...routines...
...options...
...remote procedures...
...edit, print, & sort templates...
```

When using the **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT] action, if a package is selected from the Package Parameter file that does *not* have the same name in the PACKAGE (#9.4) file, the message in [Figure 68](#) is displayed to the user:

**Figure 68: Sample Error Message—Package Not Defined**

Selected package is not defined in the Package file (#9.4) on this VistA. Protocol count may be incorrect.

5. The package statistics are reported on the “**VistA Package Size Analysis Manager – Package Statistics**” screen, as shown in [Figure 69](#):

**Figure 69: “VistA Package Size Analysis Manager – Package Statistics” Screen—ListMan Screen**

VistA Package Size Report Oct 02, 2020@14:00:53 Page: 1 of 1  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 104  
Default Directory: /srv/vista/dev/user/hfs/  
Parameter file: XTMSIZE\_GTS11-15-16\_1436.DAT

---

VistA Application Sizing Information  
Run Date: OCT 02, 2020  
VistA Application: ACCOUNTS RECEIVABLE  
=====

Number of Routines:	727
Size of Routines:	3891069
Number of Files:	127
Number of Fields:	2597
Number of Options:	320
Number of Protocols:	13
Number of RPCs:	0
Number of Templates:	130

Enter ?? for more actions and Help

CTF Create Text File ER Email Rpt Attachment  
RVQ Remote VistA Size Query SHD (Swap Header)  
Select Action:Quit//

5186,22 | 05:53:06 | Connected to the host [ecptest-dev.vha.med.va....] | || CAP NUM SCRL | 3:00 PM | |

6. When the report is displayed on the “**VistA Package Size Analysis Manager – Package Statistics**” screen, the user can select any of the following actions:

- **CTF—Create Text File** [XTVS PKG MGR RPT WRT ACTION] (see [Figure 70](#) in Section [2.2.13](#))
- **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] (see Section [2.2.14](#))
- **ER—Email Rpt Attachment** [XTVS PKG MGR RPT MAIL ACTION] (see [Figure 71](#))
- **SHD—Swap Header** [XTVS PKG RPT SWAP HEADER] (see Section [2.2.17](#))

These actions allow users to write text files that can be input to other applications (e.g., HPS Parametric Estimation Model).

**Figure 70: CTF—Create Text File Action: Example**

```

Vista Package Size Report      Nov 15, 2016@15:19:30      Page:    1 of    1
Vista Package Size Analysis Manager - Package Statistics
Version: 1      Build: 13
Default Directory: C:\TEMP
Parameter file: XTMPSIZE_QG_Demo.DAT

-----
Vista Application Sizing Information
Run Date: NOV 15, 2016
Vista Application: ACCOUNTS RECEIVABLE
=====
Number of Routines:      544
Size of Routines:        2709216
Number of Files:         121
Number of Fields:        TBD
Number of Options:       275
Number of Protocols:     146
Number of RPCs:          0
Number of Templates:     82

Enter ?? for more actions and Help
CTF Create Text File          ER Email Rpt Attachment
RVQ Remote Vista Size Query   SHD (Swap Header)
Select Action:Quit// CTF <Enter> Create Text File

Enter directory to write report file: VA3$:[XUUSER]// <Enter>
Enter the name of the Host File VistAPkgSize_31704141425.txt// <Enter>

```

**Figure 71: ER—Email Rpt Attachment Action: Example**

```
VistA Package Size Report      Nov 15, 2016@15:19:30      Page: 1 of 1
VistA Package Size Analysis Manager - Package Statistics
Version: 1      Build: 13
Default Directory: C:\TEMP
Parameter file: XTMPSIZE_QG_Demo.DAT

-----
VistA Application Sizing Information
Run Date: NOV 15, 2016
VistA Application: ACCOUNTS RECEIVABLE
=====
Number of Routines:      544
Size of Routines:        2709216
Number of Files:         121
Number of Fields:        TBD
Number of Options:       275
Number of Protocols:     146
Number of RPCs:          0
Number of Templates:     82

Enter ?? for more actions and Help
CTF Create Text File           ER Email Rpt Attachment
RVQ Remote VistA Size Query    SHD (Swap Header)

Select Action:Quit// ER <Enter> Email Rpt Attachment

The message can take some time to be sent.

Send mail to: XUUSER,ONE// ONE.XUUSER@VA.GOV
Looking in Internet Suffix file...   US GOVERNMENT via REDACTED.VA.GOV
And Send to: <Enter>

NOTE: Attachments sent to VA Mailman addresses will be unreadable.
      Send the report in a message if sending to a VA MailMan address.

Send the VistA Size Report as a message or a text file attachment: A//  

<Enter> ttachment

[Creating attachments...]
```

### 2.2.13.2 All Packages

To create a VistA Package Size Report of *all* packages on the VistA instance, do the following:

1. From the “**VistA Package Size Analysis Manager**” screen, select the **VSR—Display VistA Size Report [XTVS PKG MGR VISTA SIZE RPT]** action, as shown in [Figure 72](#).
2. At the “Select the **XTMPSIZE\*.DAT** Package Parameter file item number:” prompt, enter the number corresponding to the desired Package Parameter file (i.e., [XTMPSIZE\\*.DAT](#)) from a list of .DAT file, as shown in [Figure 72](#).
3. At the “Do you want to display Sizing Information for ALL VistA Packages? NO//” prompt, enter “**YES**” to display the report for *all* packages, as shown in [Figure 72](#).



**NOTE:** Reporting for “ALL VistA Packages” can take several minutes to complete.

4. The system prompts the user to select the type of report (for all packages), as shown in [Figure 72](#).

Selection of any of these report options can take **3 to 5** minutes to complete the counting process for all components in all of the packages.

**Figure 72: VSR—Display VistA Size Report Action: Example: All Packages**

```
Vista Package Size Manager      Apr 14, 2017@14:24:07      Page:      2 of      4
VistA Package Size Analysis Manager
Version: 1      Build: 24

-----
10: XTMPSIZE_GTS1-18-17_1500.DAT;1
11: XTMPSIZE_GTS1-30-17_1235.DAT;1
12: XTMPSIZE_GTS10-11-16_1204.DAT;1
13: XTMPSIZE_GTS10-11-16_1208.DAT;1
14: XTMPSIZE_GTS10-28-16_1537.DAT;1
15: XTMPSIZE_GTS10-31-16_1535.DAT;1
16: XTMPSIZE_GTS11-17-16_1332.DAT;1
17: XTMPSIZE_GTS12-13-16_1102.BAK;1
18: XTMPSIZE_GTS12-13-16_1102.DAT;1
19: XTMPSIZE_GTS12-15-16_1130.BAK;1
20: XTMPSIZE_QG Demo.DAT

+          Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager                  DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display VistA Size Report        UNL Unlock Parameter File
RVQ Remote VistA Size Query

Select Action:Next Screen// VSR <Enter> Display VistA Size Report

Select the XTMPSIZE*.DAT Package Parameter file item number: 20

VistA Package Sizing Report

Do you want to display Sizing Information for ALL VistA Packages? NO// YES

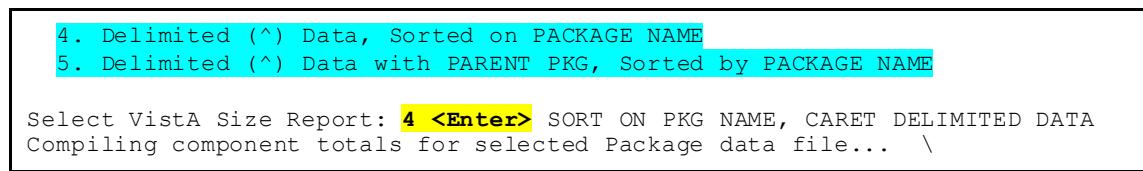
Select which method to display the package size data:

1. Sorted on PACKAGE NAME
2. Sorted on NUMBER of ROUTINES (Highest to Lowest)
3. Sorted on TOTAL ROUTINE SIZE (Highest to Lowest)
4. Delimited (^) Data, Sorted on PACKAGE NAME
5. Delimited (^) Data with PARENT PKG, Sorted by PACKAGE NAME

Select VistA Size Report: 4 <Enter> SORT ON PKG NAME, CARET DELIMITED DATA
Compiling component totals for selected Package data file...  \
```

To generate the input report for the HPS Parametric Estimation Model, select one of the “Delimited” options shown in [Figure 73](#):

**Figure 73: VSR—Display VistA Size Report Action: Choosing Option 4, Delimited (^) Data, Sorted on PACKAGE NAME**



For example, Option 4—**Delimited (^) Data, Sorted on PACKAGE NAME** is used to generate the text file for input to the HPS Parametric Estimation Model.

5. The package statistics are reported on the “VistA Package Size Analysis Manager – Package Statistics” screen, as shown in [Figure 74](#):

**Figure 74: VSR—Display VistA Size Report Action: Sample Delimited (^) Data, Sorted on PACKAGE NAME Output: Package Statistics**

A screenshot of a computer screen showing the "VistA Package Size Analysis Manager - Package Statistics" report. The report header includes:

VistA Package Size Report Sep 10, 2020@10:08:13 Page: 1 of 16  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 96  
Default Directory: /srv/vista/dev/user/hfs/  
Parameter file: XTMPSIZE\_GTS11-15-16\_1436.DAT

The main content area displays a large amount of delimited data in a grid format, starting with:

package name	prefix	#rtns	size of rtns	#files	#fields	#options	#p
ACCOUNTS RECEIVABLE	PRCA	605	^2419858	110	^2307	^260	0
ADVERSE REACTION TRACKING	GMRA	161	^488568	13	^273	^44	^18
ALERTS	XQAL	15	^88760	0	^0	^16	^0
ANTICOAGULATION MANAGEMENT	ORAM	8	^84188	0	^0	^13	^0
ASISTS	OOPS	88	^485014	32	^551	^10	^0
AUT	AUT	1	^531	0	^0	^0	^0
AUTHORIZATION/SUBSCRIPTION	USR	36	^92658	7	^49	^11	^0
AUTO REPLENISHMENT/WARD STOCK	PSGW	105	^252050	23	^590	^82	^0
AUTOMATED INFO COLLECTION	SYS	IBD	^851	^4180518	101	^1742	^48
AUTOMATED LAB INSTRUMENTS	LA	393	^1380289	0	^77	^35	^0
AUTOMATED MED INFO EXCHANGE	DVBA	929	^3525741	16	^342	^88	^1
BAR CODE EXPANSION	MJCF	0	^0	^0	^0	^0	^0
BAR CODE MED ADMIN	PSB	92	^650944	0	^0	^46	^21

At the bottom of the report, there is a yellow bar with the text: "Enter ?? for more actions and Help". Below the report, there is a menu bar with the following options:

CTF Create Text File ER EMail Rpt Attachment  
RVQ Remote VistA Size Query SHD (Swap Header)  
Select Action:Next Screen//

The status bar at the bottom of the screen shows: 905,29 | 02:51:01 | Connected to the host [ecptest-dev.vha.med.va... | CAP NUM SCRL | 11:08 AM |

The output from the **Delimited (^) Data, Sorted on PACKAGE NAME** option contains a caret delimited report of package size data that is displayed on the “**VistA Package Size Analysis Manager – Package Statistics**” screen.

If a report of all packages encounters package names in the Package Parameter file that are *not* defined in the local Package Parameter file, the user receives a VA MailMan message listing the package names missing from the PACKAGE (#9.4) file, as shown in [Figure 75](#):

**Figure 75: Sample VA MailMan Message—Missing Package Names**

```
Subj: PACKAGE REPORT NOTICE (SITE1PRO) ; Report process warning. [#160415]
10/08/20@12:53 5 lines
From: VISTA PACKAGE SIZE ANALYSIS MANAGER In 'IN' basket. Page 1
-----
Package Size Report warning for SITE1PRO.
The following package(s) are not found on this VistA.
(The number of protocols reported may be incorrect.)
- MY LOCAL PACKAGE
- ABC 4'' LABEL
```

6. When the report is displayed on the “**VistA Package Size Analysis Manager – Package Statistics**” screen, the user can select any of the following actions:
  - [\*\*CTF—Create Text File\*\*](#) [XTVS PKG MGR RPT WRT ACTION] (see Section [2.2.13](#))
  - [\*\*RVQ—Remote VistA Size Query\*\*](#) [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] (see Section [2.2.14](#))
  - [\*\*ER—Email Rpt Attachment\*\*](#) [XTVS PKG MGR RPT MAIL ACTION] (see Section [2.2.13](#))
  - [\*\*SHD—Swap Header\*\*](#) [XTVS PKG RPT SWAP HEADER] (see Section [2.2.17](#))

These actions allow users to write text files that can be input to other applications (e.g., HPS Parametric Estimation Model).

### 2.2.13.3 Package Size Report Errors

Error messages are returned to the requesting user when the remote server fails to return the requested report.

The package size report errors in [Figure 76](#) are also added to the VistA error trap on the remote VistA when the error occurs:

**Figure 76: Sample Package Size Report Errors Added to VistA Error Trap**

15)	ONEPKGSZ^XTVSSVR : Package Size Rpt error	10:14:36	SITE1PRO:DEVROTSVR	31
14)	ONEPKGSZ^XTVSSVR : Package Size Rpt error	10:14:35	SITE1PRO:DEVROTSVR	31
10)	SRVREXT^XTVSSVR : Package Size Rpt error	10:14:31	SITE1PRO:DEVROTSVR	314

**Figure 77: Sample Package Size Report Error Message—MISSING PACKAGE NAME**

```
Subj: PACKAGE SIZE REPORT (FOR ; remote request FAILED! [#91770]
08/21/20@10:27 3 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Notice for Remote Package size report on FOR.
Remote size report request FAILED for {MISSING PACKAGE NAME}.
Parameters for a selected package not sent in server request.

Enter message action (in IN basket): Ignore//
```

**Figure 78: Sample Package Size Report Error Message—^XTMP Not Sent in PackMan**

```
Subj: PACKAGE SIZE REPORT (FOR ; remote request FAILED! [#91772]
08/21/20@10:27 2 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Remote package size report on FOR failed!!
Error: ^XTMP("XTSIZE",123) not sent in Packman to XTUSER.ONE@REDACTED.VA.GOV!

Enter message action (in IN basket): Ignore//
```

**Figure 79: Sample Package Size Report Error Message—Remote Size Report Request FAILED for ALL Packages**

```
Subj: PACKAGE SIZE REPORT (FOR ; remote request FAILED! [#91773]
08/21/20@10:27 3 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Notice for Remote Package size report on FOR.
Remote size report request FAILED for ALL Packages.
Error: ^XTMP("XTVS-REMOTE-SIZE",31493) not sent in Packman to
XTUSER.ONE@REDACTED.VA.GOV!

Enter message action (in IN basket): Ignore//
```

**Figure 80: Sample Package Size Report Error Message—Remote Size Report Request FAILED: Selected Package is Not Defined in the PACKAGE (#9.4) File on this VistA**

```
Subj: PACKAGE SIZE REPORT (FOR ; remote request FAILED! [#91774]
08/21/20@10:27 3 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Notice for Remote Package size report on FOR.
Remote size report request FAILED for ZGTS TEST 2.
Selected package is not defined in the Package file (#9.4) on this Vista.

Enter message action (in IN basket): Ignore//
```

**Figure 81: Sample Package Size Report Error Message—Remote Size Report Request FAILED: PREFIX Not Found for Package Selected**

```
Subj: PACKAGE SIZE REPORT (FOR ; remote request FAILED! [#91775]
08/21/20@10:27 3 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Notice for Remote Package size report on FOR.
Remote size report request FAILED for ZGTS TEST 2.
PREFIX not found for package selected.

Enter message action (in IN basket): Ignore//
```

**Figure 82: Sample Package Size Report Error Message—Remote Size Report Request FAILED: ^XTMP Not Sent in PackMan**

```
Subj: PACKAGE SIZE REPORT (FOR ; remote request FAILED! [#91776]
08/21/20@10:27 3 lines
From: XTUSER,ONE In 'IN' basket. Page 1
-----
Notice for Remote Package size report on PFOR.
Remote size report request FAILED for ZGTS TEST 2.
Error: ^XTMP("XTVS-REMOTE-RPT") not sent in Packman to XTUSER.ONE@REDACTED.VA.GOV!

Enter message action (in IN basket): Ignore//
```

## 2.2.14 Query a Remote VistA

The **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] action is available from the following screens:

- **VistA Package Size Analysis Manager - Package Statistics**
- **VistA Package Size Analysis Manager**

This action allows a user to request a VistA Package Size report for a single package from a selected remote VistA.

When exercising this action from the “**VistA Package Size Analysis Manager - Package Statistics**” screen, the request sends the Package Parameter file used to create the displayed

report to the remote VistA so that an apples-to-apples size report is returned from the remote VistA. That is the same package parameters are used to create the report.

When exercising this action from the “**VistA Package Size Analysis Manager**” screen, the request prompts the user to select a Package Parameter file and send in the request to the remote VistA so the report can be created on the remote VistA.

If the remote VistA does *not* have a package in the PACKAGE (#9.4) file with a name that matches the package name selected for reporting, the user receives a VA MailMan message similar to [Figure 83](#):

**Figure 83: Sample VA MailMan Message—Missing Package**

```
Subj: PACKAGE REPORT NOTICE (SITE1PRO) ; Report process warning. [#160374]
10/08/20@12:19 2 lines
From: POSTMASTER In 'IN' basket. Page 1 *New*
-----
Package Size Report warning for SITE1PRO.
Package: GTS LOCAL PACKAGE...not found! Protocol count may be incorrect.
```

In addition to selecting the package to report and the VistA to report, the user needs to select the Package Parameter file to use for creating the Package size on the remote VistA.

**Figure 84: RVQ—Remote VistA Size Query Action: Example 1**

```
Do you want to Display XTMPSIZE*.BAK (backup files)? NO// <Enter>

VistA Package Size Manager Jul 30, 2020@09:29:23 Page: 1 of 1
  Vista Package Size Analysis Manager
    Version: 7.3 Build: 93

XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/
XTMPSIZE.DAT Package Parameter file list in /srv/vista/<scd>/user/hfs/:
-----
1) XTMPSIZE_GTS11-15-16_1436.DAT
2) XTMPSIZE_GTS4-2-20_0944.DAT
3) XTMPSIZE_GTS5-14-20_1023.DAT
4) XTMPSIZE_GTS5-14-20_1025.DAT
5) XTMPSIZE_GTS6-29-20_0712.DAT
6) XTMPSIZE_QG_Demo.DAT

Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display Vista Size Report UNL Unlock Parameter File
RVQ Remote VistA Size Query
Select Action:Quit// RVQ <Enter> Remote VistA Size Query

Select the XTMPSIZE*.DAT Package Parameter file item number: (1-6): 1

The response from a remote VistA can take some time.

Do you want to request a report from a remote VistA? YES// <Enter>

XTMPSIZE_GTS11-15-16_1436.DAT LOCK obtained.

Press Return to continue: <Enter>

...Loading Parameters...

Parameter file XTMPSIZE_GTS11-15-16_1436.DAT LOCK released.

Press Return to continue: <Enter>

Select Package: ACCOUNTS R

1: ACCOUNTS RECEIVABLE

Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE

Domain server to query: SITE1PRO.REDACTED.VA.GOV

Query message sent! Message # 91549

Press Return to continue: <Enter>
```

VistA Package Size Manager Jul 30, 2020@09:30 Page: 1 of 1  
Vista Package Size Analysis Manager  
Version: 7.3 Build: 93

XTPMSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/

XTPMSIZE.DAT Package Parameter file list in /srv/vista/<scd>/user/hfs/:  
-----

- 1) XTPMSIZE\_GTS11-15-16\_1436.DAT
- 2) XTPMSIZE\_GTS4-2-20\_0944.DAT
- 3) XTPMSIZE\_GTS5-14-20\_1023.DAT
- 4) XTPMSIZE\_GTS5-14-20\_1025.DAT
- 5) XTPMSIZE\_GTS6-29-20\_0712.DAT
- 6) XTPMSIZE\_QG\_Demo.DAT

Enter ?? : more actions & Help, ??? : Process Help

EM Extract Manager	DPF Delete Package Parameter File
PMD Display/Edit Package Parameters	CHD Change Host Directory
VSR Display Vista Size Report	UNL Unlock Parameter File
RVQ Remote VistA Size Query	
Select Action:Quit//	

The user only needs to select the package to report and the VistA to report. The Package Parameter file was selected when creating the local report to execute the **VSR—Display VistA Size Report** [XTVS PKG MGR VISTA SIZE RPT] action.

**Figure 85: RVQ—Remote VistA Size Query Action: Example 2**

```
Do you want to Display XTMPSIZE*.BAK (backup files)? NO// <Enter>

VistA Package Size Manager Jul 30, 2020@12:01:55 Page: 1 of 1
          Vista Package Size Analysis Manager
          Version: 7.3 Build: 93

XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/
XTMPSIZE.DAT Package Parameter file list in /srv/vista/<scd>/user/hfs/:-----
1) XTMPSIZE_GTS11-15-16_1436.DAT
2) XTMPSIZE_GTS4-2-20_0944.DAT
3) XTMPSIZE_GTS5-14-20_1023.DAT
4) XTMPSIZE_GTS5-14-20_1025.DAT
5) XTMPSIZE_GTS6-29-20_0712.DAT
6) XTMPSIZE_QG_Demo.DAT

Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager          DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display VistA Size Report UNL Unlock Parameter File
RVQ Remote VistA Size Query
Select Action:Quit// VSR <Enter> Display VistA Size Report

Select the XTMPSIZE*.DAT Package Parameter file item number: (1-6): 1

XTMPSIZE_GTS11-15-16_1436.DAT LOCK obtained.

Press Return to continue: <Enter>

VistA Package Sizing Report

Do you want to display Sizing Information for ALL VistA Packages? NO// <Enter>

Select Package: ACCOUNTS

1: ACCOUNTS RECEIVABLE

Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE

...counting...
...files and fields...
...routines...
...options...
...protocols...
...remote procedures...
...edit, print, & sort templates...

Parameter file XTMPSIZE_GTS11-15-16_1436.DAT LOCK released.

Press Return to continue: <Enter>
```

VistA Package Size Report Jul 30, 2020@12:02:14 Page: 1 of 1  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 93  
Default Directory: /srv/vista/<scd>/user/hfs/  
Parameter file: XTMPSIZE\_GTS11-15-16\_1436.DAT

VistA Application Sizing Information  
Run Date: JUL 30, 2020  
VistA Application: ACCOUNTS RECEIVABLE  
=====

Number of Routines:	605
Size of Routines:	2419858
Number of Files:	110
Number of Fields:	2307
Number of Options:	260
Number of Protocols:	0
Number of RPCs:	1
Number of Templates:	128

Enter ?? for more actions and Help  
CTF Create Text File ER Email Rpt Attachment  
RVQ Remote VistA Size Query SHD (Swap Header)  
Select Action:Quit// **RVQ <Enter>** Remote VistA Size Query

The response from a remote VistA can take some time.

Do you want to request a report from a remote VistA? YES// **<Enter>**

XTMPSIZE\_GTS11-15-16\_1436.DAT LOCK obtained.

Press Return to continue: **<Enter>**

...Loading Parameters...

Parameter file XTMPSIZE\_GTS11-15-16\_1436.DAT LOCK released.

Press Return to continue: **<Enter>**

Select Package: **ACCOUNTS RE**

1: ACCOUNTS RECEIVABLE

Enter number for Selected Package: **1 <Enter>** ACCOUNTS RECEIVABLE

Domain server to query: **SITE1PRO.REDACTED.VA.GOV**

Query message sent! Message # 91553

Press Return to continue: **<Enter>**

VistA Package Size Report Jul 30, 2020@12:02:44 Page: 1 of 1  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 93  
Default Directory: /srv/vista/<scd>/user/hfs/  
Parameter file: XTMPSIZE\_GTS11-15-16\_1436.DAT

VistA Application Sizing Information

Run Date: JUL 30, 2020  
VistA Application: ACCOUNTS RECEIVABLE  
=====

Number of Routines: 605  
Size of Routines: 2419858  
Number of Files: 110  
Number of Fields: 2307  
Number of Options: 260  
Number of Protocols: 0  
Number of RPCs: 1  
Number of Templates: 128

Enter ?? for more actions and Help

CTF Create Text File	ER Email Rpt Attachment
RVQ Remote VistA Size Query	SHD (Swap Header)
Select Action:Quit//	

**Figure 86** is an example of the **RVQ—Remote VistA Size Query** [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION] action when executed from a local size report for all packages.

**Figure 86: RVQ—Remote VistA Size Query Action: Example 3**

```
Do you want to Display XTMPSIZE*.BAK (backup files)? NO// <Enter>

Vista Package Size Manager Jul 30, 2020@12:05:17 Page: 1 of 1
          Vista Package Size Analysis Manager
          Version: 7.3 Build: 93

XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/
XTMPSIZE.DAT Package Parameter file list in /srv/vista/<scd>/user/hfs/:-----
1) XTMPSIZE_GTS11-15-16_1436.DAT
2) XTMPSIZE_GTS4-2-20_0944.DAT
3) XTMPSIZE_GTS5-14-20_1023.DAT
4) XTMPSIZE_GTS5-14-20_1025.DAT
5) XTMPSIZE_GTS6-29-20_0712.DAT
6) XTMPSIZE_QG_Demo.DAT

Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager          DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display Vista Size Report UNL Unlock Parameter File
RVQ Remote Vista Size Query
Select Action:Quit// VSR <Enter> Display Vista Size Report

Select the XTMPSIZE*.DAT Package Parameter file item number: (1-6): 1

XTMPSIZE_GTS11-15-16_1436.DAT LOCK obtained.

Press Return to continue: <Enter>

Vista Package Sizing Report

Do you want to display Sizing Information for ALL Vista Packages? NO// YES

Select which method to display the package size data:

1. Sorted on PACKAGE NAME
2. Sorted on NUMBER of ROUTINES (Highest to Lowest)
3. Sorted on TOTAL ROUTINE SIZE (Highest to Lowest)
4. Delimited (^) Data, Sorted on PACKAGE NAME
5. Delimited (^) Data with PARENT PKG, Sorted by PACKAGE NAME

Select Vista Size Report: 4 <Enter> SORT ON PKG NAME, CARET DELIMITED DATA

Compiling component totals for selected Package data file... -
Parameter file XTMPSIZE_GTS11-15-16_1436.DAT LOCK released.

Press Return to continue: <Enter>
```

VistA Package Size Report Jul 30, 2020@12:05:42 Page: 1 of 16  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 93  
Default Directory: /srv/vista/<scd>/user/hfs/  
Parameter file: XTMPSIZE\_GTS11-15-16\_1436.DAT

```
{package name}^{prefix}^{\#rtns}^{\size of rtns}^{\#files}^{\#fields}^{\#options}^{\#p
ACCOUNTS RECEIVABLE^PRCA^605^2419858^110^2307^260^0^1^128
ADVERSE REACTION TRACKING^GMRA^161^488568^13^273^44^18^0^4
ALERTS^XQAL^15^88760^0^0^16^0^1^1
ANTICOAGULATION MANAGEMENT^ORAM^8^84188^0^0^13^0^35^3
ASISTS^OOPS^88^485014^32^551^10^0^65^0
AUT^AUT^1^531^0^0^0^0^0^0
AUTHORIZATION/SUBSCRIPTION^USR^36^92658^7^49^11^0^0^4
AUTO REPLENISHMENT/WARD STOCK^PSGW^105^252050^23^590^82^0^0^50
AUTOMATED INFO COLLECTION SYS^IBD^851^4180518^101^1742^48^1^16^32
AUTOMATED LAB INSTRUMENTS^LA^393^1380289^0^0^77^35^0^14
AUTOMATED MED INFO EXCHANGE^DVBA^929^3525741^16^342^88^1^70^28
BAR CODE EXPANSION^MJCF^0^0^0^0^0^0^0^0
BAR CODE MED ADMIN^PSB^92^650944^0^0^46^21^43^0
```

```
+ Enter ?? for more actions and Help
CTF Create Text File ER Email Rpt Attachment
RVQ Remote VistA Size Query SHD (Swap Header)
Select Action:Next Screen// RVQ <Enter> Remote VistA Size Query
```

The response from a remote Vista can take some time.

Do you want to request a report from a remote Vista? YES// <Enter>

XTMPSIZE\_GTS11-15-16\_1436.DAT LOCK obtained.

Press Return to continue: <Enter>

...Loading Parameters...

Parameter file XTMPSIZE\_GTS11-15-16\_1436.DAT LOCK released.

Press Return to continue: <Enter>

Select Package: ACCOUNTS RE

1: ACCOUNTS RECEIVABLE

Enter number for Selected Package: 1 <Enter> ACCOUNTS RECEIVABLE

Domain server to query: SITE1PRO.REDACTED.VA.GOV

Query message sent! Message # 91555

Press Return to continue: <Enter>

VistA Package Size Report Jul 30, 2020@12:06:10 Page: 1 of 16  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 93  
Default Directory: /srv/vista/<scd>/user/hfs/  
Parameter file: XTMPSIZE\_GTS11-15-16\_1436.DAT

```
{package name}^{prefix}^{\#rtns}^{\size of rtns}^{\#files}^{\#fields}^{\#options}^{\#p
ACCOUNTS RECEIVABLE^PRCA^605^2419858^110^2307^260^0^1^128
ADVERSE REACTION TRACKING^GMRA^161^488568^13^273^44^18^0^4
ALERTS^XQAL^15^88760^0^0^16^0^1^1
ANTICOAGULATION MANAGEMENT^ORAM^8^84188^0^0^13^0^35^3
ASISTS^OOPS^88^485014^32^551^10^0^65^0
AUT^AUT^1^531^0^0^0^0^0^0
AUTHORIZATION/SUBSCRIPTION^USR^36^92658^7^49^11^0^0^4
AUTO REPLENISHMENT/WARD STOCK^PSGW^105^252050^23^590^82^0^0^50
AUTOMATED INFO COLLECTION SYS^IBD^851^4180518^101^1742^48^1^16^32
AUTOMATED LAB INSTRUMENTS^LA^393^1380289^0^0^77^35^0^14
AUTOMATED MED INFO EXCHANGE^DVBA^929^3525741^16^342^88^1^70^28
BAR CODE EXPANSION^MJCF^0^0^0^0^0^0^0^0
BAR CODE MED ADMIN^PSB^92^650944^0^0^46^21^43^0
```

+ Enter ?? for more actions and Help  
CTF Create Text File ER Email Rpt Attachment  
RVQ Remote VistA Size Query SHD (Swap Header)  
Select Action:Quit//

**Figure 87** is an example of the Remote VistA Size Report message received when the **RVQ—Remote VistA Size Query [XTVS PKG MGR RPT QUERY REMOTE ACTION and XTVS PKG QUERY REMOTE VISTA SIZE ACTION]** action is completed.

**Figure 87: VA MailMan—Sample Remote VistA Size Report Message Received**

```
Select MailMan Option: ??  
Choose from:  
1           SEND A MESSAGE  
2           READ/MANAGE MESSAGES  
3           NEW MESSAGES AND RESPONSES  
4           LOAD PACKMAN MESSAGE  
5           EDIT USER OPTIONS  
6           PERSONAL MAIL GROUP EDIT  
7           JOIN MAIL GROUP  
8           MAILBOX CONTENTS LIST  
9           LOG-IN TO ANOTHER SYSTEM (TalkMan)  
10          QUERY/SEARCH FOR MESSAGES  
11          BLOB SEND  
  
Select MailMan Option: NEW MESSAGES AND RESPONSES  
Select New mail option: Read new mail by basket// <Enter>  
  
-----  
Subj: PACKAGE SIZE REPORT (SITE1PRO ; Jul 29, 2020 12:56:26 pm ; $JOB#: 9  
[#91530] 07/29/20@12:56 16 lines  
From: POSTMASTER In 'IN' basket. Page 1 *New*  
-----  
VistA Application Sizing Information  
  
Site Domain: SITE1PRO.REDACTED.VA.GOV  
Run Date: JUL 29, 2020  
  
VistA Application: ACCOUNTS RECEIVABLE  
=====Number of Routines: 605  
Size of Routines: 2419858  
Number of Files: 110  
Number of Fields: 2307  
Number of Options: 260  
Number of Protocols: 0  
Number of RPCs: 1  
Number of Templates: 128  
  
Enter message action (in IN basket): Ignore//
```

## 2.2.15 Change Host File Directory

Using the “**VistA Package Size Analysis Manager**” screen, set the Package Parameter file (i.e., **XTPMSIZE\*.DAT**) default directory as follows:

1. Invoke the **VistA Package Extract Manager** [XTVS VISTA PACKAGE EXTRACT MGR] option.
2. At the “Do you want to Display XTPMSIZE\*.BAK (backup files)? NO//” prompt, press **Enter** to accept the **NO** default response.
3. From the “**VistA Package Size Analysis Manager**” screen, select the **CHD—Change Host Directory** [XTVS SITE PARAMETERS] action, as shown in [Figure 88](#).



**NOTE:** The **CHD—Change Host Directory** [XTVS SITE PARAMETERS] action is locked with the **XTVS EDITOR** security key.

4. Set the “**VistA Package Size default directory**” to a directory on the VistA server host system that the user, who will be managing package parameters and creating package size reports, has **READ** and **WRITE** privileges.

**Figure 88: CHD—Change Host Directory Action: Example**

```
Vista Package Size Manager      Apr 14, 2017@14:07:44          Page:      3 of    4
Vista Package Size Analysis Manager
Version: 1      Build: 0

22) XTMPSIZE_GTS2-9-17_1627.DAT;1
23) XTMPSIZE_GTS3-6-17_0922.DAT;1
24) XTMPSIZE_GTS4-10-17_0839.DAT;1
25) XTMPSIZE_GTS7-26-16_1054.DAT;1
26) XTMPSIZE_GTS7-26-16_1119.DAT;1
27) XTMPSIZE_GTS7-26-16_1527.DAT;1
28) XTMPSIZE_GTS7-26-16_1531.DAT;1
29) XTMPSIZE_GTS7-27-16_1016.DAT;1
30) XTMPSIZE_GTS8-11-16_0838.DAT;1
31) XTMPSIZE_GTS8-18-16_1014.DAT;1
32) XTMPSIZE_GTS8-3-16_1545.DAT;1
33) XTMPSIZE_GTS8-4-16_1321.DAT;1
34) XTMPSIZE_GTS8-8-16_1532.DAT;1
+       Enter ?? : more actions & Help, ??? : Process Help
EM   Extract Manager           DPF Delete Package Parameter File
PMD  Display/Edit Package Parameters  CHD Change Host Directory
VSR  Display Vista Size Report     UNL Unlock Parameter File
RVQ  Remote Vista Size Query
Select Action:Next Screen// CHD <Enter> Change Host Directory

Package Size Parameter Edit for System: REDACTED.VA.GOV
-----


Current default directory is displayed here.


VistA Package Size default directory          VA3$:[XUUSER]
-----


Enter new default directory at this prompt.


VistA Package Size default directory: VA3$:[XUUSER] //
```

## 2.2.16 Unlock Parameter File

The **UNL—Unlock Parameter File** [XTVS PKG MGR PARAM UNLOCK ACTION] action deletes the lock file for the Package Parameter file. Typical use of unlock would occur when a system-level problem removes a lock while a file is being used. To display and unlock a LOCKED Package Parameter file, do the following:

1. From the “**VistA Package Size Manager**” screen, invoke the **UNL—Unlock Parameter File** [XTVS PKG MGR PARAM UNLOCK ACTION] action.
2. A list of LOCKED files is displayed, as shown in [Figure 89](#):

**Figure 89: Sample List of LOCKED Files**

```
1 : XTMPSIZE_GTS5-16-19_1052.LCK  
Select File:
```

3. Select the file that was **LOCKED**.
4. At the “Do you want to UNLOCK XTMPSIZE\_<your initials>mm-dd-yy\_hhss.DAT?” prompt, enter **YES**. This removes the lock on that file.

## 2.2.17 Swapping Headers

The **SHD—Swap Header** [XTVS PKG RPT SWAP HEADER] action swaps the “List Manager” header on a displayed VistA size report for all packages. The user can display either of the following headers:

- Default report header format ([Figure 90](#)).
- Column headings for the listed packages ([Figure 91](#)).

This action is *not* active (displayed in parenthesis) from the “**VistA Package Size Analysis Manager - Package Statistics**” screen for a single package (see [Figure 86](#)), because the date headings are displayed next to the data. The **SHD—Swap Header** [XTVS PKG RPT SWAP HEADER] action is only active when a user readable report for all packages is displayed.

Specifically, the display of the sample report headings in [Figure 90](#) and [Figure 91](#) is toggled by the **SHD—Swap Header** [XTVS PKG RPT SWAP HEADER] action:

**Figure 90: “List Manager” Header Format—Example 1**

```
VISTA PACKAGE SIZE ANALYSIS MANAGER - PACKAGE STATISTICS  
VERSION: 7.3          BUILD: 108  
DEFAULT DIRECTORY: /SRV/VISTA/<SCD>/USER/HFS/  
PARAMETER FILE: XTMPSIZE_QG_DEMO.DAT
```

**Figure 91: “List Manager” Header Format—Example 2**

	Total	Rtn							
Application (Namespace)	Routines	Size	Files	Fields	Options	Protocols	RPCs	Templates	

When the **SHD—Swap Header** [XTVS PKG RPT SWAP HEADER] action is executed, it would change the “first” header format ([Figure 90](#)) to the “second” header format ([Figure 91](#)).

**Figure 92: SHD—Swap Header Action: Example 1**

```
Select OPTION NAME: XTVS VISTA PACKAGE EXTRACT MGR <Enter> Vista Package Extract
Manager
VistA Package Extract Manager

Do you want to Display XTMPSIZE*.BAK (backup files)? NO// <Enter>

VistA Package Size Manager Sep 09, 2020@07:26:31 Page: 1 of 2
VistA Package Size Analysis Manager
Version: 7.3 Build: 96

XTMPSIZE.DAT default directory: /srv/vista/<scd>/user/hfs/
XTMPSIZE.DAT Package Parameter file list in /srv/vista/<scd>/user/hfs/: -----
1) XTMPSIZE_GTS11-15-16_1436.DAT
2) XTMPSIZE_GTS4-2-20_0944.DAT
3) XTMPSIZE_GTS5-14-20_1023.DAT
4) XTMPSIZE_GTS5-14-20_1025.DAT
5) XTMPSIZE_GTS6-29-20_0712.DAT
6) XTMPSIZE_GTS8-11-20_1305.DAT
7) XTMPSIZE_GTS8-11-20_1318.DAT
8) XTMPSIZE_QG_Demo.DAT

+ Enter ?? : more actions & Help, ??? : Process Help
EM Extract Manager DPF Delete Package Parameter File
PMD Display/Edit Package Parameters CHD Change Host Directory
VSR Display Vista Size Report UNL Unlock Parameter File
RVQ Remote Vista Size Query
Select Action:Next Screen// VSR <Enter> Display Vista Size Report

Select the XTMPSIZE*.DAT Package Parameter file item number: (1-10): 8
XTMPSIZE_QG_Demo.DAT LOCK obtained.

Press Return to continue: <Enter>

VistA Package Sizing Report

Do you want to display Sizing Information for ALL VistA Packages? NO// YES
Select which method to display the package size data:

1. Sorted on PACKAGE NAME
2. Sorted on NUMBER of ROUTINES (Highest to Lowest)
3. Sorted on TOTAL ROUTINE SIZE (Highest to Lowest)
4. Delimited (^) Data, Sorted on PACKAGE NAME
5. Delimited (^) Data with PARENT PKG, Sorted by PACKAGE NAME

Select VistA Size Report: 1 <Enter> SORT ON PKG NAMES

Compiling component totals for selected Package data file... -
Parameter file XTMPSIZE_QG_Demo.DAT LOCK released.
```

Press Return to continue: <Enter>

VistA Package Size Report Sep 09, 2020@07:26:54 Page: 1 of 47  
VistA Package Size Analysis Manager - Package Statistics  
Version: 7.3 Build: 96  
Default Directory: /srv/vista/<scd>/user/hfs/  
Parameter file: XTMPSIZE\_QG\_Demo.DAT

VistA Application Sizing Information

Sort Type: 1

Application (Namespace)	Routines	Total Size	Files	Fields	Options	Protocols	RPCs	Templates
ACCOUNTS RECEIVABLE (PRCA)	605	2419858	110	2307	260	0	1	128
ADVERSE REACTION TRACKING (GMRA)	161	488568	13	273	44	18	0	4
ALERTS (XQAL)	15	88760	0	0	16	0	1	1
ANTICOAGULATION MANAGEMENT (ORAM)	8	84188	0	0	13	0	35	3
ASISTS (OOPS)	88	485014	32	551	10	0	65	0
AUT (AUT)	1	531	0	0	0	0	0	0
AUTHORIZATION/SUBSCRIPTION (USR)	36	92658	7	49	11	0	0	4
AUTO REPLENISHMENT/WARD STOCK								

+ Enter ?? for more actions and Help

CTF Create Text File ER Email Rpt Attachment  
RVQ Remote VistA Size Query SHD Swap Header  
Select Action:Next Screen// SHD <Enter> Swap Header

**Figure 93: SHD—Swap Header Action: Example 2**

Select Action:Next Screen// <b>SHD &lt;Enter&gt;</b> Swap Header								
VistA Package Size Report			Sep 09, 2020@07:27:06					
Page: 3 of 47								
Application (Namespace)	Routines	Total Size	Files	Fields	Options	Protocols	RPCs	Templates
+ (PSGW)	105	252050	23	590	82	0	0	50
-----								
AUTOMATED INFO COLLECTION SYS								
(IBD)	851	4180518	101	1742	48	1	16	32
-----								
AUTOMATED LAB INSTRUMENTS								
(LA)	393	1380289	0	0	77	35	0	14
-----								
AUTOMATED MED INFO EXCHANGE								
(DVBA)	929	3525741	16	342	88	1	70	28
-----								
BAR CODE EXPANSION								
(MJCF)	0	0	0	0	0	0	0	0
-----								
+ Enter ?? for more actions								
CTF Create Text File					ER Email Rpt Attachment			
RVQ Remote VistA Size Query					SHD Swap Header			
Select Action:Next Screen// <b>SHD &lt;Enter&gt;</b> Swap Header								

**Figure 94: SHD—Swap Header Action: Example 3**

Select Action:Next Screen// <b>SHD &lt;Enter&gt;</b> Swap Header									
VistA Package Size Report Sep 09, 2020@07:27:17 Page: 3 of 47									
VistA Package Size Analysis Manager - Package Statistics									
Version: 7.3 Build: 96									
Default Directory: /srv/vista/<scd>/user/hfs/									
Parameter file: XTMPSIZE_QG_Demo.DAT									
+									
(PSGW)	105	252050	23	590	82	0	0	50	
-----									
AUTOMATED INFO COLLECTION SYS									
(IBD)	851	4180518	101	1742	48	1	16	32	
-----									
AUTOMATED LAB INSTRUMENTS									
(LA)	393	1380289	0	0	77	35	0	14	
-----									
AUTOMATED MED INFO EXCHANGE									
(DVBA)	929	3525741	16	342	88	1	70	28	
-----									
BAR CODE EXPANSION									
(MJCF)	0	0	0	0	0	0	0	0	
-----									
+ Enter ?? for more actions									
CTF Create Text File					ER Email Rpt Attachment				
RVQ Remote VistA Size Query					SHD Swap Header				

### 3 Appendix A—System MailMan Messages

The examples in this section are VistA Package Size Reporting Tool (VPSRT) messages that can be received by the user via VA MailMan. These messages are sent from VPSRT to notify the user of special package configuration circumstances.

#### 3.1 Warning Message—When Create Report of a Single Package Remotely

**Figure 95: VPSRT MailMan Message—Warning Message: When Create Report of a Single Package Remotely**

```
Subj: PACKAGE REPORT NOTICE (SITE1PRO) ; Report process warning. [#160374]
10/08/20@12:19 2 lines
From: POSTMASTER In 'IN' basket. Page 1 *New*
-----
Package Size Report warning for SITE1PRO.
Package: MY LOCAL PACKAGE...not found! Protocol count may be incorrect.

Enter message action (in IN basket): Ignore//
```

#### 3.2 Warning Message—When Create Report of All Packages Locally

**Figure 96: VPSRT MailMan Message—Warning Message: When Create Report of All Packages Locally**

```
Subj: PACKAGE REPORT NOTICE (SITE1PRO) ; Report process warning. [#160415]
10/08/20@12:53 5 lines
From: VISTA PACKAGE SIZE ANALYSIS MANAGER In 'IN' basket. Page 1 *New*
-----
Package Size Report warning for SITE1PRO.
The following package(s) are not found on this VistA.
(The number of protocols reported may be incorrect.)
- MY LOCAL PACKAGE
- ABC 4 '' LABEL

Enter message action (in IN basket): Ignore//
```

### 3.3 Clean Up Message—When Request Extract from Remote or Local VistA

**Figure 97: VPSRT MailMan Message—Clean Up Message: When Request Extract from Remote or Local VistA**

```
Subj: PACKAGE EXTRACT (FOR) ; data cleanup! [#160427] 10/08/20@13:36
3 lines
From: POSTMASTER In 'IN' basket. Page 1 *New*
-----
Notice for Package Extract on FOR.
Data was cleaned up on ABC 4'' LABEL extract.
Double Quotes changed to 2 single quotes in the ABC 4'' LABEL Package name.

Enter message action (in IN basket): Ignore//
```